



THE WORLD BELONGS TO THOSE WHO UNDERSTAND IT.



Academic Calendar
2006 – 2007

Academic Calendar 2006–2007

Undergraduate and Graduate Programs

The Forty-Third 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.

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The World Belongs To Those Who Understand It.

Dear Trent Students,

Whether you are joining us for your first year of study or you are a returning student ready for another year of discovery at Trent, I'd like to welcome you – and to thank you for being a part of this great community we call Trent University.

This academic calendar, whether you're reading it on-line or in print, will become an important companion to you as you plan your degree and make the all-important choices that will lead you to the goals you have set for yourself. We all come to an understanding of the world in different ways and it is that diverse perspective that is so much a part of the Trent experience. It is why our students tell us about the sense of belonging they feel here on campus – and about how the multiplicity of thought feeds their understanding of the world around them.

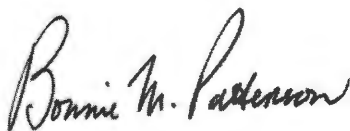
I encourage you to explore the variety of subjects and courses here in our calendar. There is no shortage of challenges or inspiration – and therefore no limit to the opportunities your learning here can afford you. Trent's graduates experience success in the world of academia, the public sector, not-for-profit, business and beyond. Not only do they succeed; they also go out into the world and make a difference there. Many of them credit Trent for providing them with an exceptional worldview.

How does Trent offer this distinctive viewpoint? One of Canada's top primarily undergraduate universities, Trent University is renowned for striking a unique balance between outstanding teaching and leading-edge research. The University is consistently recognized nationally for faculty who maintain a high level of innovative research activity and a deep commitment to cultivating the individual student.

So consider the contents of this calendar the opportunity of a lifetime because here at Trent, you can explore many of the topics listed here with some of the world's leading researchers.

Enjoy your years here at Trent as you gain the knowledge, the friendships and the memories that will take you forward in life. It will be my privilege to meet you along the way.

Sincerely,



Bonnie M. Patterson
President and Vice-Chancellor



Bonnie M. Patterson

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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 areas, 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 four residential colleges, the main library, three science buildings, a First Peoples House of Learning, 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 DNA teaching and research facility is scheduled to open in the fall of 2006. In addition to the residential colleges, part-time study is offered through the Julian Blackburn College for continuing education.

Now in its forty-third teaching year, the University has approximately 6,556 undergraduates in the full-time program, and 1,376 part-time students.

In addition, there are 164 Master's degree candidates in the five fields in which the Master's degree is offered and 82 Ph.D. candidates in Canadian Studies, Indigenous Studies and Watershed Ecosystems.

Trent University consistently ranks among the top primarily undergraduate universities provincially and nationally.

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.

Using the Calendar

The Trent University Calendar exists in two versions, this print version and an online 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, but not limited to:

- 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,
- degree requirements,
- 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 disabilities. 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 and applicable legislation.

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 2006

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

May	5* Friday	Final date for receipt of grades for incompletes and Letter of Permission courses for those planning to convocate on June 1 and 2 * 4 weeks before convocation
	22 Monday	Statutory Holiday: "Victoria Day"
	26 Friday	Final date for payment of deposit against residence fees by continuing students
June	1 Thursday	Final date for receipt of applications and supporting documentation for full-time admission to Trent University Convocation
	2 Friday	Convocation
	9 Friday	Final date to request Summer session Letters of Permission
	23 Friday	Final date for receipt of grades for incompletes from the Fall/Winter session Tuition Deposit for Fall-Winter 2006–2007 due
July	1 Saturday	Statutory Holiday: "Canada Day"
	10 Monday	Final date for grade appeals for full and Winter half courses Final date for receipt of appeals against academic penalties
August	7 Monday	Statutory Holiday: "Civic Holiday"
	8 Tuesday	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
	18 Friday	First instalment of fees is due for all students (under review)

FALL/WINTER SESSION 2006–2007**Fall Session 2006**

Sept	4	Monday	Statutory Holiday: "Labour Day" Arrival of new students
	5	Tuesday	Introductory Seminar Week begins
	8	Friday	Final date for new student registration, without late registration fee Final date for receipt of Application for Degree/Diploma Assessment for Fall eligibility
	11	Monday	Classes begin Beginning of formal course change period
	15	Friday	Final date for full-time re-admit and transfer students to register, without late registration fee
	18	Monday	Final date for rebate on college fees for students transferring from full to part-time status
	21	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"
	22	Friday	Faculty Board Meeting
	26	Tuesday	Meeting of the Senate
	29	Friday	Final date for registration with late registration fee Final date to change or add Fall half courses Final date to change or add full courses without late registration 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
Oct.	9	Monday	Statutory Holiday: "Thanksgiving Day"
	20	Friday	Faculty Board meeting
	21	Saturday	Classes end
	23	Monday	Residential Reading and Laboratory Week begins
	30	Monday	Classes resume Final date to change or add full courses with late registration fee
	31	Tuesday	Meeting of the Senate
Nov.	10	Friday	Final date for withdrawal from Fall half courses without academic penalty
	17	Friday	Final date to request Letters of Permission for courses beginning January, 2007
	24	Friday	Faculty Board meeting
Dec.	5	Tuesday	Meeting of the Senate
	8	Friday	Last day of classes 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
	9	Saturday	Scheduled mid-term test and Fall half course final examination period begins (Saturday exam days included)
	13	Wednesday	Tuition fees for January start courses due
	21	Thursday	Mid-term test and Fall half course final examination period ends, 10:30pm
	23	Saturday	Winter Vacation and Reading Period begins College residences close
	25	Monday	Statutory Holiday: "Christmas Day"
	26	Tuesday	Statutory Holiday: "Boxing Day"

Winter Session 2007

Jan.	1	Monday	Statutory Holiday: "New Year's Day"
	7	Sunday	College residences open
	8	Monday	Classes resume
	15	Monday	Second instalment of fees is due
	19	Friday	Faculty Board meeting
	23	Tuesday	Meeting of the Senate
	26	Friday	Final date to change or add Winter half courses Final date to register in Winter half courses
Feb.	2	Friday	Final date for receipt of Application for Degree/Diploma Assessment for Spring Convocation Final date for receipt of applications for all second session bursaries listed in Calendar
	9	Friday	Faculty Board meeting
	13	Tuesday	Meeting of the Senate Final date for withdrawal from full Fall/Winter session courses without academic penalty
	17	Saturday	Classes end
	19	Monday	Residential Reading and Laboratory Week begins
	26	Monday	Classes resume
	27	Tuesday	T2202A and T4A Forms are mailed
	28	Wed.	Final date for submitting incomplete standing for Fall half-courses
	9	Friday	Faculty Board meeting Final date for withdrawal from Winter half courses without academic penalty
	12	Monday	Final date for appeals for Fall half courses
Mar.	13	Tuesday	Meeting of the Senate
	TBA		Deadline for application for continuing students seeking residence
	5	Thursday	Classes end
	6	Friday	Statutory Holiday "Good Friday"
	8	Sunday	Statutory Holiday "Easter Sunday"
	9	Monday	Examinations begin for Winter half and full courses
	10	Tuesday	Meeting of the Senate
	12	Thursday	Application deadline to transfer from part-time to full-time studies
	13	Friday	Faculty Board meeting
	25	Wednesday	Examinations end for Winter half and full courses, 10:30 p.m.
Apr.	27	Friday	Final date for application for transfer between colleges for students not seeking residence

Summer Session 2007 (For Summer session deadlines, see chart p.10)

May	4*	Friday	Final date for receipt of grades for incompletes and Letter of Permission courses for those planning to convocate on May 31 and June 1 *4 weeks before convocation
	21	Monday	Statutory Holiday: "Victoria Day"
	25	Friday	Final date for payment of deposit against residence fees by returning students
	30	Wednesday	Final date to request Summer session Letters of Permission Final date for receipt of applications and supporting documentation for full-time admission
	31	Thursday	Convocation
June	1	Friday	Convocation
	30	Saturday	Final date for receipt of grades for incompletes from the Fall/Winter session

July	1	Sunday	Statutory Holiday: "Canada Day"
	2	Monday	University closed
	9	Monday	Final date for grade appeals for full and Winter half courses Final date for receipt of appeals against academic penalties
August	6	Monday	Statutory Holiday: "Civic Holiday"
	7	Tuesday	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 2006

	8 week term	12 week term	6 week term
Final date for receipt of applications for admission or re-admission with supporting documentation	April 17	April 17	June 19
Final date for all students to register without a late registration fee	April 21	April 21	June 23
Classes begin	May 1	May 1	July 4
Final date for all students to register with late registration fee.	May 12	May 12	July 7
Final date to add courses	May 12	May 12	July 7
Final date for academic withdrawal	June 2	June 9	July 21
Classes end	June 28	July 26	August 16
Examination period begins*	June 28	July 31	August 17

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

Summer Session Deadlines 2007

	8 week term	12 week term	6 week term
Final date for receipt of applications for admission or re-admission with supporting documentation	April 16	April 16	June 18
Final date for all students to register without a late registration fee	April 20	April 20	June 18
Classes begin	April 30	April 30	July 3
Final date for all students to register with late registration fee.	May 18	May 18	July 6
Final date to add courses	May 18	May 18	July 6
Final date for academic withdrawal	June 1	June 8	July 20
Classes end	June 25	July 25	August 14
Examination period begins*	June 27	July 30	August 16

* These are full course dates only. 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 2006–2007



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 (pp. 24-204). 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 (pp. 204-228). 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." (For quarter- and three-quarter credit courses in the Consecutive Bachelor of Education program see p. 87).

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. The attempt with the highest grade will be used when determining the cumulative average.

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 term. 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 students with disabilities; 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.

Examinations and tests for students with disabilities who require disability-related supports – e.g. extra time or other assistance – are available. All requests must be made through the Disability Services Office at least two weeks before the examination or test, and must be supported by appropriate documentation from a qualified health care diagnostician.

Information regarding documentation guidelines is available at www.Trentu.ca/disabilityservices.

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 will 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. Instructors and/or departments are not permitted to release final grades. Final examination marks can be released to students only after final grades have been released by the Registrar's Office.

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 the Fall/Winter session and Summer 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 the academic 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 excluding repeated courses with a lower grade. The session average includes all courses in the current session (Fall-Winter or Summer) for which a grade has been assigned.

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%, 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 22, 2006 for courses completed in the 2006 Summer session
- March 16, 2007 for courses completed in the 2006 Fall session
- July 13, 2007 for courses completed in the 2007 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 Associate Dean of Arts and Science (Teaching and Learning) in the case of undergraduate students and to the Dean of 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. 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. 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. The student may appeal a decision of the Dean 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.

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. 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. The student may appeal a decision of the Dean 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.

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. The student may appeal a decision of the Dean 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.

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.

Assistance with the appeals procedure: Students seeking support for an appeal should consult their senior tutor or seek advice from faculty members. 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.

Removal of transcript notations: If a student has a notation of "0 – Academic Dishonesty" or "Suspension – Academic Dishonesty" on his or her transcript, an application can be made in writing to the Vice President (Academic) to have the "Academic Dishonesty" notation removed from the transcript; "0" grades and notations of suspension cannot be removed. Such applications may not be initiated before a student graduates or until two years have lapsed since the penalty was imposed, whichever is later.

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.

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 hardship, 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; 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 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 Science, as appropriate.

Why	Who	When
Petitions Concerning Incomplete Work		
• Incomplete Standing (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 (p. 14)		
You will be unable to write the final examination.	Course Instructor	Normally before final examination
• Late Withdrawal (p. 14)		
You were unable to withdraw from a course before the deadline to withdraw 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 (p. 16)		
You wish to appeal 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 (p. 16)		
You wish to appeal 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 (p. 16)		
You wish to appeal an academic regulation.	Committee on Undergraduate Standing & Petitions (through Senior Tutor)	Consult Senior Tutor
Appeals of Academic Suspension (p. 15)		
You have been suspended as a result of your academic standing.	1. Senior Tutor 2. Committee on Undergraduate Standings & Petitions (if necessary)	By July 13 for the previous Fall/Winter session, or within two weeks of receiving notice
Appeals of Penalties for Academic Misconduct (pp. 18-20)		
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 (p. 16)		
You wish to appeal the result of any previous appeals or petitions.	Special Appeals Committee	Within 4 weeks of receipt of previous ruling

DEGREE REQUIREMENTS

Trent University offers the following degree programs:

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

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.

Applicable Calendar for Degree Completion

The regulations in force in the year in which a student applies to graduate are normally the ones listed in that year's Calendar. It is the responsibility of students to consult the Calendar each year and to follow regulations as stated.

Requirements for all Bachelor's degrees

For requirements for the Consecutive Bachelor of Education program see p. 87. 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 p. 49	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
Nursing
Physics & Astronomy

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, but not MATH 280) are required for the Honours degree, eleven (including one in Mathematics, but not MATH 280) for the General degree. 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." (For quarter- and three-quarter credit courses in the Consecutive Bachelor of Education program see p. 87).

- **Academic Timetable**

Please consult the academic timetable, available at www.trentu.ca/mytrent/AcademicTimetable.htm, for information on courses that will be offered in 2006–2007 including when they will be scheduled.

- **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. This course is offered online. Consult the Animal Care webpage (www.trentu.ca/animalcare), the Associate Dean of Science or the Departments of Biology, Chemistry, Psychology or the Environmental & Resource Science/Studies Program for access information.

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

Professor

I. C. Storey, B.A. (Univ. Trin. Coll.), M.A., Ph.D. (Toronto), M.Phil. (Oxford)

Associate Professor

J. P. Moore, B.A. (Wilfrid Laurier), M.A., Ph.D. (McMaster); **D. F. R. Page**, B.A., Dip. Ed. (Sheffield) (*on leave 2006–2007*)

Lecturers

R. D. Fitzsimons, B.A., M.A. (Toronto)

Adjunct Faculty

I. Begg, B.A. (Western), M.A. (Toronto), Ph.D. (Toronto); **M. R. Boyne**, B.A. (Trent), M.A. (Toronto)

Professor Emeritus

K. H. Kinzl, Dr. Phil. (Vienna)

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) are offered according to faculty availability. Interested students should consult with the department by March of the preceding year. 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 AHCL 100 and 201 in first year.
- AHCL 250 may be counted as fulfilling the university requirements for a 300-level course.
- From 2003 – 2004 onwards AHCL – ANTH 226 will be a prerequisite for all 300- and 400-level courses in Classical archaeology.

- AHCL 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.
- 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. 209.
- For the Emphasis in Classical History, see p. 210.
- For the most complete and up-to-date information on the department of Ancient History & Classics – courses, faculty, special events, internet resources, etc. – check the department of Ancient History & Classics 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- HIST 205 may be substituted for an unspecified credit in Ancient Greek & Roman Studies degree programs.
- Ancient History & Classics courses at the 200-level may be taken as 300- or 400-level credits with permission of the instructor (excluding AHCL 210 and 226).

Category A (History)	Category B (Civilization)	Category C (Literature)
AHCL 100	AHCL 210	AHCL 150
AHCL 201	AHCL 220H	AHCL 250
AHCL 205H	AHCL 223H	AHCL 350
AHCL 207H	AHCL 226	AHCL 3903
AHCL 305	AHCL 231H	AHCL 3953
AHCL 312H	AHCL 232H	AHCL 4903
AHCL 313	AHCL 322	AHCL 4953
AHCL 315	AHCL 325H	
AHCL 3901	AHCL 330	
AHCL 3951	AHCL 334H	
AHCL 410	AHCL 3902	
AHCL 420	AHCL 3952	
AHCL 4901	AHCL 4902	
AHCL 4951	AHCL 4952	

The single-major Honours program. At least 10 credits in Ancient History & Classics, including:

- 1 credit in category A
- 2 credits in category B
- 1 credit in category C
- 6 additional credits, at least 2 at the 300-level and at least 2 at the 400-level

The joint-major Honours program. At least 8 credits in Ancient History & Classics, including:

- 1 credit in category A
- 2 credits in category B
- 1 credit in category C
- 4 additional credits, at least 1 at the 300-level and at least 2 at the 400-level

The single-major General program. At least 7 credits in Ancient History & Classics, including:

- 1 credit in category A
- 2 credits in category B
- 1 credit in category C
- 3 additional credits, at least 2 at the 300-level

The joint-major General program. At least 5 credits in Ancient History & Classics, including:

- 1 credit in category A
- 1 full-credit credit in category B
- 1 credit in category C
- 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 same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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 in the department, including:

- at least 2 credits in Greek
- at least 2 credits in Latin
- 4 additional credits in Greek or Latin, at least 2 at the 400-level
- 1 credit in AHCL

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

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

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006–2007 including when they will be scheduled.

COURSES IN ANCIENT HISTORY & CLASSICS

AHCL 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).

AHCL 150 – 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. Excludes AHCL 100.

AHCL 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). Open to first-year students.

AHCL 205H – 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. Open to students beyond first year.

AHCL 207H – 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. Open to students beyond first year.

AHCL – PHIL 210 – Ancient philosophy (see Philosophy)

AHCL – ANTH 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. Open to students beyond the first year.

AHCL – ANTH – GEOG 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. Open to students beyond first year.

AHCL – ANTH 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.). Open to students beyond first year. Excludes AHCL – ANTH 224H, 227H and 228H.

AHCL – WMST 231H – 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). Open to students beyond first year.

AHCL – WMST 232H – 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). Open to students beyond first year.

AHCL 250 – 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. Excludes AHCL 200. Open to students beyond first year.

AHCL 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. Open to Ancient History & Classics students beyond second year or permission of the instructor.

AHCL 312H – 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. Excludes AHCL 352H. Prerequisite: at least 0.5 credit in AHCL or History or permission of the instructor. Open to students beyond first year.

AHCL 313 – 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. Excludes AHCL 331.

Prerequisite: AHCL 201 or permission of the instructor.

AHCL 315 – 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. Excludes AHCL 351. Prerequisite: AHCL 201 or permission of the instructor.

AHCL – ANTH 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.

Prerequisite: one credit from AHCL – ANTH 226, 227H, 228H or both AHCL 100 and 201.

Excludes AHCL – ANTH 222.

AHCL – ANTH 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). Prerequisite: one credit from AHCL – ANTH 226, 227H, 228H. Excludes AHCL – ANTH 225H.

AHCL 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: ANTH 212 or AHCL – ANTH 226 or permission of the instructor. Limited enrolment.

AHCL – ANTH 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. Prerequisite: one credit from AHCL – ANTH 226, 227H, 228H. Excludes AHCL – ANTH 234H.

AHCL 350 – 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*, Lucian's "True" History), the concept of Utopia (the myth of Atlantis), and stories of sex and love (*Ephesian Story*, *Satyricon*, *Golden Ass*). Excludes AHCL 300. Open to students beyond the first year.

AHCL 3901 or 3951 – Reading or special topic course

Prerequisite: two credits in AHCL in translation, one of which must be at the upper-year level. Open to students beyond second year. Open also to majors in History.

AHCL 3902 or 3952 – Reading or special topic course in Classical Civilization.

Prerequisite: two credits in AHCL in translation, one of which must be at an upper-year level. Open to students beyond second year.

AHCL 3903 or 3953

A reading or special topic course in Classical Literature. Prerequisite: two credits in AHCL in translation, one of which must be at an upper-year level. Open to students beyond second year.

AHCL 410 – The Athenian Empire

Political and intellectual developments in the fifth century. Open to students beyond third year.

AHCL 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. Open to AHCL and History students beyond third year or permission of the instructor.

AHCL 4901 or 4951

Reading or special topic course in Classical History. Prerequisite: two credits in AHCL in translation, one of which must be at an upper-year level.

AHCL 4902 or 4952

A reading or special topic course in Classical Civilization. Prerequisite: two credits in AHCL in translation, one of which must be at an upper-year level.

AHCL 4903 or 4953

A reading or special topic course in Classical Literature. Prerequisite: two credits in AHCL in translation, one of which must be at an upper-year level.

GREEK AND LATIN COURSES**GREK 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.

GREK 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*. Prerequisite: GREK 100 or permission of the department.

GREK 390 – Reading course**GREK 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. Prerequisite: GREK 200 and permission of the department.

GREK 490 – Reading or special topic course

GREK 495 – Special topic course

See GREK 395. Prerequisite: GREK 395 and permission of the department.

LATN 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.”

LATN 200 – Intermediate Latin

Continuation and completion of Latin grammar, with reading of relatively easy selections from prose and verse, republic to silver age. Prerequisite: LATN 100 or permission of the department.

LATN 390 – Reading course**LATN 395 – Special topic course**

Prerequisite: LATN 200 and permission of the department.

LATN 490 – Reading or special topic course**LATN 495 – Special topic course**

Prerequisite: LATN 395 and permission of the department.

Anthropology

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Web: www.trentu.ca/anthropology

Chair of the Department

To be named

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) (*on leave 2006–2007*);

S. M. Jamieson, B.A. (McMaster), M.A. (Manitoba), Ph.D. (Washington State) (*on leave 2006–2007*); **J. K. So**, B.A., M.A., Ph.D. (SUNY, Buffalo) (*on leave 2006–2007*);

J. R. Topic, B.A., M.A., Ph.D. (Harvard)

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); **G. Iannone**, B.A. (Simon Fraser), M.A. (Trent), Ph.D. (London); **A. Meneley**, B.A. (McGill) Ph.D. (New York)

Assistant Professors

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, Ohio), M.A., Ph.D. (New Mexico)

Research Associates

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

Associated Faculty

J. Solway, B.A. (Michigan), M.A., Ph.D. (Toronto)

Professors Emeriti

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

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

- ANTH 100 or both ANTH 101H and 102H are prerequisites 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 ANTH 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.
- 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 p. 209.

BACHELOR OF ARTS AND BACHELOR OF SCIENCE PROGRAMS IN ANTHROPOLOGY

- See p. 22 for requirements which apply to all undergraduate degree programs.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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 100-series Anthropology courses if they can demonstrate previous experience of the discipline, have an 80% 4U/M average or equivalent and include all four of ANTH 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 IDST – ANTH 221 for one of ANTH 212, 231 or 240 in their Anthropology requirements.
- Students planning to enter graduate school are strongly advised to take ANTH 200, 212, 231 and 240; if they are planning on continuing in archaeology they are strongly advised to take both ANTH 310 and 399.
- MLAL 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:

- ANTH 100 or both ANTH 101H and 102H
- at least 3 of ANTH 200, 212, 231 or 240
- ANTH 310 or 399
- 4 additional Anthropology credits beyond the 200-level
- 1 additional Anthropology credit
- for the B.Sc., 14 science credits in the program as a whole, including 1 credit in Mathematics, preferably MATH 150

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

- ANTH 100 or both ANTH 101H and 102H
- at least 2 of ANTH 200, 212, 231 or 240
- ANTH 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 MATH 150

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

- ANTH 100 or both ANTH 101H and 102H
- at least 3 of ANTH 200, 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 MATH 150

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

- ANTH 100 or both ANTH 101H and 102H
- at least 2 of ANTH 200, 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 MATH 150

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

ANTH 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).

ANTH 101H – Biological anthropology and archaeology (Sc)

An introduction to the aspects of biological anthropology and anthropological archaeology. Topics covered include human evolution, the biology of peoples past and present, archaeological method, the development of culture, the domestication of plants and animals, and the rise of civilization and the state. Excludes ANTH 100.

ANTH 102H – Anthropology – an ethnographic introduction

An introduction of how anthropologists work to understand the nature of culture and language. Primary emphasis will be on the centrality of ethnographic fieldwork, and students will read classic and/or contemporary ethnographies. Excludes ANTH 100.

ANTH 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: ANTH 100 or both ANTH 101H and 102H or SOCI 100 or permission of the instructor.

ANTH – MLAL 201H – Phonetics (see Modern Languages & Literatures)

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

ANTH 203H – Technology and humanity

An introduction to the origin, development and diversity of technologies in human prehistory and ethnology. The course includes archaeological, biological, sociocultural and linguistic anthropological perspectives on the role of technologies in human evolution and culture change. (offered only in Oshawa)

ANTH 204H – Law and order in ancient and contemporary cultures

An examination of social control and organization in past and present societies around the world. The findings of archaeological, biological, sociocultural and linguistic anthropology are combined to understand the range of political and justice systems as ways of defining and solving human problems. (offered only in Oshawa)

ANTH 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: ANTH 100 or both ANTH 101H and ANTH 102H or permission of the instructor.

ANTH – AHCL 220H – Introduction to Egyptian archaeology from the Pharaohs to the Romans (see Ancient History & Classics)

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

ANTH – AHCL – GEOG 223H – The ancient city (see Ancient History & Classics)

ANTH 226 – AHCL – Introduction to Classical archaeology and art history (see Ancient History & Classics)

ANTH 231 – Language, culture and society

An introduction to the study of language in its social and cultural context. Students will be introduced to research in the ethnography of communication, sociolinguistics and linguistic anthropology. The course will cover topics relating language to gender, class, politics, ethnicity as well as multilingualism, poetics, ritual. Co-requisite: MLAL 101 or ANTH 200. Excludes ANTH 332.

ANTH 240 – Biological anthropology (Sc)

The study of the genetics, evolution, growth and development, and biology of the human species. Prerequisite: ANTH 100 or both ANTH 101H and 102H or permission of the instructor.

ANTH – CAST – NAST 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: ANTH 100 or both ANTH 101H and 102H or permission of the instructor.

ANTH 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: ANTH 200, 212, 231 or 240 as appropriate or permission of the instructor. Excludes ANTH 211. Limited enrolment.

ANTH – IDST 301 – African culture and society

An introduction to contemporary African culture and society, focussing on culture history and indigenous institutions, the impact of colonial rule and present-day problems of development. Prerequisite: ANTH 200 or IDST 200 or permission of the instructor.

ANTH – MLAL 302H – Romance linguistics (see Modern Languages & Literatures)

ANTH – MLAL 303H – Germanic linguistics (see Modern Languages & Literatures)

ANTH – IDST 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: ANTH 200 or IDST 200 or permission of the instructor.

ANTH 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: ANTH 212 or permission of the instructor.

ANTH 311 – North American archaeology (Sc)

A survey of the native cultures in North America (excluding Mexico) from the first humans to European contact. Prerequisite: ANTH 212 or permission of the instructor.

ANTH 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: ANTH 212 or permission of the instructor.

ANTH 313H – Peoples of the Southwest

This course examines continuity and change at the intersection of the multiple cultures of the US Southwest. Specific topics include comparison of the varying histories and worldviews of Hopi and Zuni Pueblos and the Navajo, the emergence and persistence of Hispanic and Anglo identities, and contemporary romanticization of the Southwest.

ANTH 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: ANTH 200, 212 or permission of the instructor.

ANTH 315 – Archaeological laboratory procedures (Sc)

The description and analysis of materials from archaeological contexts including artifacts and natural organic and inorganic remains. Prerequisite: ANTH 212 or permission of the instructor. Limited enrolment.

ANTH 316H – Peoples of Pacific Oceania

From tiny coral atolls to lush jungles to vast deserts, this course explores the diverse cultures of Polynesia, Micronesia, Melanesia, and Australia. Topics covered include the prehistoric settlement and geography of the islands, regional social and cultural patterns, the ethnography of several specific groups, and contemporary problems and triumphs.

ANTH – AHCL 322 – Cult and religion in the Graeco-Roman world (see Ancient History & Classics)**ANTH 324H – Nonverbal communication**

The study of material signs in their social context, including all forms of nonverbal human communication. Topics include gesture and body adornment; material objects as signs, including houses, commodities and other objects of exchange; performances and rituals; religious icons; and anything that can be considered to act as a sign. Prerequisite: ANTH 200 and 231. Co-requisite: ANTH 399. Excludes ANTH 424H.

ANTH – AHCL 325H – The Aegean Bronze Age (see Ancient History & Classics)**ANTH 327H – 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: ANTH 200 or permission of the instructor. Excludes ANTH 405.

ANTH – AHCL 334H – Etruscan archaeology, c. 1000 – 200 B.C. (see Ancient History & Classics)**ANTH – BIOL 341 – Human osteology and forensic anthropology (Sc)**

An introduction to forensic anthropology, a subfield of physical anthropology that focusses 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: ANTH 240. Limited enrolment.

ANTH – BIOL 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: ANTH 240 or permission of the instructor. Excludes ANTH – BIOL 343.

ANTH – BIOL 346H – 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: ANTH 240 or permission of the instructor.

ANTH – BIOL 347H – Primate behaviour (Sc)

A general survey of the Order Primates, focussing 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: ANTH 240 or permission of the instructor.

ANTH 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: ANTH 240 or permission of the instructor.

ANTH – BIOL 349H – Primate evolution (Sc)

General biology, systematics, anatomy and paleontology of non-human primates, including the importance of primates for understanding human evolution. Prerequisite: ANTH 240 or permission of the instructor. Excludes ANTH – BIOL 340.

ANTH – CUST 350 – The crisis of modern critical discourse: the “return of the religious”
(see Cultural Studies)**ANTH – CAST 351 – Art, architecture and society**

This course examines visual art and architecture in cross-cultural perspective, exploring aesthetics and the nature of art in cultures worldwide, the artist's role in society, and the functions of art, from religion to identity to propaganda. Prerequisite: one of ANTH 200, 212, 253 or permission of the instructor.

ANTH – COST 363H – Computer applications in anthropology (Sc)

This course explores the method and theory of computational anthropology. Topics include quantitative modeling and analysis of anthropological datasets, application of geographical information systems and remote sensing to anthropological problems, and agent-based simulation of long-term, human behaviour. Prerequisite: Any one of ANTH 200, 212, 231, or 240 and COSC 151H or GEOG 209H or equivalent.

ANTH 365H – Landscape and settlement archaeology (Sc)

The course explores the spatial dimension of archaeological data and its relationship to ecology and human behavior. 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: ANTH 212 or permission of the instructor.

ANTH 370H – Psychological anthropology

This course examines the interrelationship of individual personality and cultural context. The course includes cross-cultural comparison of emotions, motivation, cognition, imagination, and perception. Personal adjustment, mental illness, states of consciousness, and the nature of mind are all explored from the holistic perspective of anthropology. Prerequisite: ANTH 200 or permission of the instructor.

ANTH 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: ANTH 212 or permission of the instructor.

ANTH 372H – 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: ANTH 212 or permission of the instructor.

ANTH – CAST 373H – National traditions in socio-cultural anthropology: Canada

This course will examine topics in the practice and pedagogy of socio-cultural anthropology in Canada. Students will be assigned readings on the history of the field and a selection of ethnographies written about Canadian communities in the post WWII era. The course approach reflects the dialogue between these two frameworks. Prerequisite: ANTH 200 or permission of instructor.

ANTH 374H – Ritual language and performance

An exploration of a central theme in anthropology, ritual and similar performances, from both linguistic and sociocultural perspectives. Topics covered will include rituals as collective representations, interactional rituals, ritual and drama, ritual language and poetics. Prerequisite: ANTH 231, ANTH 200. Co-require: ANTH 399.

ANTH 375H – Archaeology of the southwest

An introduction to the prehistoric and early historic cultures of the US Southwest, from the Paleoindian period through the 1680 Pueblo Revolt against the Spanish. The course focusses on the Hohokam, Mimbres, and Ancient Pueblo cultures, with case studies of Chaco Canyon and Pajarito Plateau. Prerequisite: ANTH 212 or permission of instructor.

ANTH – IDST 377 – Society, culture and development in Africa (see International Development Studies)

ANTH – IDST 389 – Andean, economy, culture and society (see International Development Studies)

ANTH – NAST – CAST 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: ANTH 200.

ANTH 399 – Theories of society and culture

Structured thematically, the course will survey the principle theoretical developments in the discipline. Prerequisite: ANTH 200 and one of ANTH 212, 231 or 240 or ANTH – IDST 221. Excludes ANTH 420.

ANTH 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. ANTH 402 is a double credit in Anthropology. ANTH 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: ANTH 310 or 399; courses directly relevant to the thesis topic; and an A- (80%) minimum overall average in Anthropology courses.

ANTH – IDST 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: ANTH 200, IDST 200 or permission of the instructor. (Support course for International Development Studies)

ANTH – CAST 408H – Travel culture I

This course is designed as a complement to ANTH 409H. It will examine the idea of the tourist both within the context of a "pleasure seeker" and at a more metaphorical level; and the culture(s) and ethnographies of travel. Prerequisite: ANTH 399 or permission of instructor.

ANTH – CAST 409H – Travel culture II

This course is designed as a complement to ANTH 408H. It will explore some of the issues around the idea of the tourist attraction and the socio-cultural impact of tourism development both in Canada and globally. Prerequisite: ANTH 399 or permission of the instructor.

ANTH – SOCI 410H – Gifts and commodities

We explore the classic and contemporary discussions of the relationship between gifts and commodities. We trace contemporary debates back to their origins in Marx, Simmel, and Mauss. We consider the relationship between objects and persons, and the conditions of production, circulation, exchange, and consumption of objects. Prerequisite: ANTH 399, SOCI 345 or permission of the instructor.

ANTH 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: ANTH 212 or permission of the instructor.

ANTH 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: ANTH 212 or permission of the instructor.

ANTH 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, focussing upon Aboriginal arts and technologies and contacts with the civilizations of Mesoamerica and the Andes. Prerequisite: ANTH 212 or permission of the instructor. (offered in alternate years)

ANTH 414H – Historic archaeology (Sc)

A survey of the methods and techniques that historical archaeologists use to define, describe, and analyze their data. Prerequisite: ANTH 212 or permission of the instructor. Recommended: ANTH 310. (offered in alternate years)

ANTH 415H – 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. Emphasis placed on examples from southern Ontario. Prerequisite: ANTH 212 or permission of the instructor. Recommended: ANTH 310. (offered in alternate years)

ANTH 416 – 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. Limited enrolment. Prerequisite: ANTH 200 and ANTH 399 or permission of the instructor. Excludes ANTH 309.

ANTH – WMST 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: ANTH 200.

ANTH 425H – 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: ANTH 200. Prerequisite or co-requisite: ANTH 310 or ANTH 399.

ANTH 426H – Advanced topics in culture and mortality

A continuation of Culture and Mortality, in which we explore in-depth a few topics relating to death depending upon student interest. Prerequisite: ANTH 425H. Prerequisite or co-requisite: ANTH 310 or ANTH 399.

ANTH 427H – Topics in religion and culture

A focussed study of a particular topic in the study of religion and culture. Topics will change from year to year. In 2006–2007, the topic will be the Anthropology of Islam. Prerequisite: ANTH 200 or permission of the instructor. Recommended: ANTH 327H or ANTH 399.

ANTH 442H – Palaeopathology (Sc)

This course focusses on the study of disease in human skeletal remains. emphasis is placed on the description and diagnosis of bone pathology, theoretical issues underlying the reconstruction of the health of past populations, and recent molecular and microscopic approaches to the study of disease in bone. Prerequisite: ANTH 341 or permission of the instructor.

ANTH – CAST 450H – 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: ANTH 200 or 240 or (for Canadian Studies majors only) CAST 300.

ANTH – IDST 475H – Perspectives on ethnicity (see International Development Studies)**ANTH – IDST 476H – Family and modernity** (see International Development Studies)**ANTH – NAST 477H – Anthropology of colonialism**

The course provides a historical anthropological exploration of colonialism. Drawing on case studies from Eurasia, Asia and Africa, it focusses on the colonial construction of categories of language, race, ethnicity, gender, and sexuality, and how such cultural categories have been transformed and/or reproduced in the postcolonial present. Prerequisite: ANTH 200, ANTH 231. Co-requisite: ANTH 399.

ANTH 480H – Cultural dynamics: Innovation, transmission and change

This course examines the active processes of culture, particularly the development of new cultural ideas, the spread of those ideas among individuals and societies, and long-term transformations in cultural patterns. We will explore cultural origins, the media of storage and transmission, and intercultural contact and exchange. Prerequisite: ANTH 200. (offered only in Oshawa)

ANTH 481H – Monsters: Societies seen through their others

This course examines the linguistic, semiotic and cultural constitution of figures of otherness or "alterity" that both define the boundaries and provide inverted images of societies and languages, paying particular attention to figures of monstrous alterity, both physical and linguistic monstrosity, and along various dimensions of difference. Prerequisite: At least one of ANTH 200, 231, 324H or 399 or permission of the instructor.

ANTH 482H – Culture and food

This course examines classic issues in the anthropology of food. We focus on etiquette of food consumption, food and sex, food and religion and morality, food exchange and preparation, vegetarianism and meat eating, and cannibalism. Prerequisite: ANTH 200 or permission of the instructor. Excludes ANTH 494.

ANTH 483H – Food production in moral economies

This course explores moral and ethical dimensions of food production and circulation. The politics of excess and want, national cuisines, reactions to industrial and fast food (the Slow Food movement, culinary connoisseurship). Food distribution, from home to restaurants and fast food joints, is examined in the context of changing demands of work. Prerequisite: ANTH 200 or permission of the instructor.

ANTH 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.

ANTH 4931H – 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: ANTH 212 and ANTH 300 or 310 or permission of the instructor. Limited enrolment.

ANTH – WMST 4932H – Special topic: Sex, gender and science (see Women's Studies)

ANTH 495 – Special topic: Comparative early states

This course provides a comparative analysis of early states from around the world. Emphasis is placed on elucidating those cross-cultural regularities that appear to signify shared human responses to everyday existence, as well as cultural divergences indicative of the uniqueness and diversity of the human experience. Prerequisite: ANTH 212 or permission of the instructor.

ANTH 496H – Special topic: Zooarchaeology (Sc)

The identification and interpretation of animal remains from archaeological sites. Prerequisite: ANTH 315 or permission of the instructor.

ANTH 497H – 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: ANTH 200 or permission of the instructor.

ANTH – IDST 4971H – Western Europe (I) – People and place (see International Development Studies)

ANTH – IDST 4972H – Western Europe (II) – Movements and ideas (see International Development Studies)

ANTH 498H – 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: ANTH 200 or permission of the instructor.

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

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

Faculty

See listing of faculty in Biology and Chemistry.

The chemistry of life processes is at the heart of all living things. 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 same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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 co-ordinator are prerequisites for CHEM 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:

- BIOL 102H, 103H, 200 H, 207H, 308H, CHEM 100, 200, 212, 240H, CHEM – BIOL 231H, 330 or 331H and 332H, 434H, 435H
- 2 credits from BIOL 325H, 326H, 328H, 383H, 384H, 408H, 416H, 432H, 438H, 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 MATH 110 (or in MATH 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:

- BIOL 102H, 103H, 200H, 207H, 308H, CHEM 100, 200, 212, 240H, CHEM – BIOL 231H and 330 or 331H and 332H
- 2 credits from BIOL 325H, 326H, 328H, 383H, 384H, 408H, 416H, 432H, 438H, 460H or 484H
- 1 additional credit in Chemistry at the 300-level
- 1 credit in MATH 110 (or in MATH 105H and another 0.5 credit in Mathematics)

Biology

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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) (*on leave Winter term*)

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); **E. Nol**, B.Sc. (Michigan), M.Sc. (Guelph), Ph.D. (Toronto) (*on leave Winter term*); **J. F. Sutcliffe**, B.Sc. (Waterloo), M.Sc., Ph.D. (Toronto)

Associate Professors

N. Emery, B.Sc. (Queen's), Ph.D. (Calgary); **T. R. Matthews**, B.Sc. (Southampton); **C. D. Maxwell**, B.Sc. (Wales); **J. Schaefer**, B.Sc. (McGill), M.Sc. (Manitoba), Ph.D. (Saskatchewan) (*on leave 2006-2007*); **P. Wilson**, B.Sc., M.Sc., Ph.D. (McMaster)

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); **L. Kerr**, B.Sc., M.Sc. (Carleton), Ph.D. (British Columbia); **S. Watmough**, B.Sc. (Liverpool Polytechnic, U.K.), Ph.D. (Liverpool John Moores, U.K.); **M. Xenopoulos**, B.Sc., M.Sc. (Montréal), Ph.D. (Alberta); **J. Yee**, B.Sc. (Toronto), M.Sc. (Queen's), Ph.D. (UBC)

Adjunct Faculty

J. Carver, B.A. (Toronto), Ph.D. (Harvard); **G. Mitchell**, B.Sc. (Trent), A.R.T.; **P. C. Frost**, B.Sc. (Rochester), M.Sc. (Ohio State), Ph.D. (Arizona State)

Senior Demonstrator

D. Buelow, B.Sc. (Trent), M.Sc. (Toronto)

Demonstrators/Technicians

A. Armit, B.Sc. Agr (McGill); **S. Chow**, M.Sc. (Saskatchewan); **D. Lietz**, Lb.T. (Seneca); **W. Wilson**, R.T.

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., Ph.D. (West Indies)

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, the Biochemistry & Molecular Biology program is shared with the Chemistry department. Students may choose to do joint-major degrees with other departments or programs, including Environmental & Resource Science/Studies, Chemistry, Geography, Anthropology and Psychology, among others.

Revision of Program

- The Biology Department has undertaken a revision of its program. The new regulations will apply to all students declaring their major at the end of the 2005–2006 academic year. Students already in the program will have the option of completing their degree under the new regulations or the old. For the old regulations check the Trent calendar for 2005–2006 or the Biology department website (www.trentu.ca/biology).
- In the revised program some courses that were previously offered at the 200-level are now being offered at the 300-level, and vice versa. In each case it is the level at which a student took the course that will be considered when calculating the number of credits beyond the

200-level required for the student's degree (7 for the Honours degree, 4 for the General degree).

Notes

- BIOL 105 does not serve as a prerequisite for any upper-level Biology course.
- All 300-level courses except BIOL 310H (which requires prior completion of 10 credits) may be taken at any time after completion of prerequisites; some will be offered only in alternate years.
- All 400-level courses except BIOL 401, 402D, 440, 445, 462H, 490, 491H and 492H (which require prior completion of 15 credits) may be taken after completion of 10 credits.
- 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 the instructor.
- A student may take a maximum of two credits in reading courses in Biology (1 credit in BIOL 390, 391H, 392H and 393H plus one credit in BIOL 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.
- 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.
- 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 same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- MATH 110, MATH 150 or MATH 105H and 155H are strongly recommended for fulfilling the University requirement of one credit in Mathematics in the B.Sc. program. (Psychology majors and joint-majors may substitute PSYC 215.)
- The following courses are also recommended for students planning to major in Biology: CHEM 100, 212, 231H, ERSC 100, 350, GEOG 104H, MATH 135H and PHYS 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: BIOL 205H, 207H, 206H or 308H, 361H and 362H, BIOL – ERSC 216H and 217H, CHEM 100 and MATH 110.
- Students intending to pursue graduate studies should take BIOL 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:

- BIOL 102H, 103H, 200H, 205H, 207H, 361H
- BIOL 216H or 217H
- 6.5 additional credits
- CHEM 100
- 1 credit in Mathematics

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

- BIOL 102H, 103H, 200H, 205H, 207H, 361H
- BIOL 216H or 217H
- 3.5 additional credits in Biology
- 1 credit in Mathematics

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

- BIOL 102H, 103H, 200H, 205H, 207H, 361H
- BIOL 216H or 217H
- 2.5 additional credits in Biology
- CHEM 100
- 1 credit in Mathematics

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

- BIOL 102H, 103H, 200H, 205H, 207H, 361H
- BIOL 216H or 217H
- 1.5 additional credits in Biology
- 1 credit in Mathematics

SPECIALIZATION IN CONSERVATION BIOLOGY

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Program Co-ordinators

E. Nol, B.Sc. (Michigan), M.Sc. (Guelph), Ph.D. (Toronto), **J. Cebek**, B.Sc. (Trent), Ph.D. (York)

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."

BIOL 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 with a cumulative average of 75%. BIOL 440 may be taken jointly with BIOL 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: BIOL – ERST 216H and 217H, BIOL 362H; Co-requisite: BIOL 439H.

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

- BIOL 362H, 439H, BIOL – ERSC 216H, 217H
- 0.5 credits on a topic related to Conservation Biology from BIOL 390, 391H, 392H, 393H, 490, 491H, 492H or 493H
- 3 credits from the following:
BIOL 305, 309H, 314H, 319H, 321H or 420H, 324H, 327H, 336H, 328H or 428H, 250H or 350H, 361H, 385H, 386H, 387H, 388H, 411H, 414H, 417H, 418H, 433H
ERSC 316H, 320, 330, 335H, 351H, 424H, 452H, 464H, 467H, 480

SPECIALIZATION IN HEALTH SCIENCES

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Program Co-ordinators

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

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.

BIOL 445 – Internship in Health Sciences

Students must successfully complete BIOL 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. BIOL 445 is open to students who have earned at least 15 credits and achieved a cumulative average of at least 75%. Prerequisite: BIOL 205H, 206H, 207H and CHEM 100. Co-requisites: BIOL 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.

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

- BIOL 102H, 103H, 205H, 206H or 308H, 207H, 383H, 384H and CHEM 100
- 0.5 credit on a topic related to Health Sciences from 390 or 490 series reading courses in BIOL, CHEM, ERSC or Psychology
- 3 credits from the following:
 - ANTH 344H, 346H, 348, 442H
 - BIOL 211H, 304H, 307H, 310H, 325H, 326H or 426H, 335H or 438H, 408H, 411H, 416H, 419H, 426H, 432H, 462H, 484H
 - CHEM 231H, 330, 434H, 435H
 - ECON – CAST 384H
 - ERSC 240, 313H, 370, 412H
 - PSYC 343H, 372H, 375H, 376H, 435H
 - SOCI 363
 - PHIL 239H, 439H

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006–2007 including when they will be scheduled.

BIOL 102H – Current issues in biology I

An examination of the biological principles underlying questions concerning biodiversity and evolution. The course will begin with a 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: 4U Biology or its equivalent or permission of the department.

BIOL 103H – 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: 4U Biology or its equivalent or permission of the department.

BIOL 105 – Human anatomy and physiology

A comprehensive survey of the structures and functions of the human organ systems. Topics covered include 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: 4U Biology and Chemistry. Recommend: 4U Kinesiology. Open only to students enrolled in the Bachelor of Science in Nursing and the Bachelor of Science in Forensic Science Programs.

BIOL 200H – Methods of biological inquiry

This course provides experience in asking and answering questions in biology, exploring the power of the scientific method and the importance of critical analysis. Examples will involve a wide diversity of organisms and approaches, involving the use of a variety of statistical tools. Prerequisite: BIOL 102H and 103H.

BIOL 205H – 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: BIOL 103H and BIOL 102H or 105.

BIOL 207H – 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: BIOL 103H. Recommended: CHEM 100.

BIOL – ERSC – GEOG 208H – Natural science statistics (see Geography)**BIOL 211H – Vertebrate zoology**

The evolution, ecology, life history, structural and functional morphology of the vertebrates. Prerequisite: BIOL 102H and BIOL 103H. Required dissections.

BIOL 213H – 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: 4U Biology and Chemistry, BIOL 105. Pre- or co-requisite: CHEM 155H. Co-requisite: NURS 203H.

BIOL 214H – Clinical 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: 4U Biology and Chemistry; BIOL 105 and CHEM 155H.

BIOL – ERSC 216H – 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: BIOL 102H. Strongly recommended: MATH 150.

BIOL – ERSC 217H – 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: BIOL 102H. Strongly recommended: MATH 150.

BIOL 229H – Plants in society

An examination of the importance of plants in society. Topics include an in-depth look at the role of plants in human population growth, biotechnology, food safety, medicines and commercial products. Excludes: BIOL 329H. Prerequisite: BIOL 102H.

BIOL – CHEM 231H – Introduction to biochemical concepts (see Chemistry)**BIOL – ERSC 240 – Environmental microbiology** (see Environmental & Resource Science/Studies)**BIOL 250H – Biogeography**

Major patterns of distribution and abundance of animal and plant species as affected by geological, ecological and evolutionary processes. Excludes: BIOL 350H. Prerequisite: BIOL 102H, 103H and 216H.

BIOL 261H – 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, BIOL 102H or 103H.

BIOL 262H – 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, BIOL 102H or 103H.

BIOL – ERSC 270 – Environmental science for teacher education (see Environmental & Resource Science/Studies) (Cannot be used for credit toward any major in Biology)**BIOL 304H – 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: BIOL 103H and BIOL 207H or 211H.

BIOL 305 – Limnology

Ecology of freshwater ecosystems, biology, geochemistry and physics of freshwater lakes, rivers and streams. Prerequisite: BIOL – ERSC 216H and 217H. Recommended: CHEM 100. Field trips.

BIOL 307H – 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: BIOL 304H. Field trips. There will be a maximum charge of \$20 to cover field trips and photographic printing.

BIOL 308H – 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. Excludes Biology 206H. Prerequisite: BIOL 103H, CHEM 100.

BIOL 309H – 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 BIOL 102H and BIOL 103H. 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.

BIOL 310H – Medical entomology

A study of medically important insects and the disease conditions they produce in humans and animals. Prerequisite: minimum of 10 credits including BIOL 102H and BIOL 103H. Strongly recommended: BIOL 309H.

BIOL 314H – 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: BIOL – ERSC 216H and 217H. Field work. Strongly recommended: MATH 150, BIOL – ERSC – GEOG 208H.

BIOL 315H – Biology of invertebrates

An introduction to the diversity of invertebrate animals emphasizing their evolutionary relationships and functional, behavioural and ecological aspects of their biology. Excludes: BIOL 210H. Prerequisite: BIOL 102H and 103H or permission of the instructor.

BIOL 317H – 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 BIOL 218H. Prerequisite: BIOL 102H and at least one full Biology credit at the 200 level. Recommended: BIOL 103H.

BIOL 318H – Plants in action

Due to a sessile nature and exceptional demands, plant functioning is unique and highly dynamic. Emphasizing 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 BIOL 219H. Prerequisite: BIOL 102H and 103H, and at least one credit in Biology at the 200 level. Strongly recommended: BIOL 218H or 317H.

BIOL 319H – 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. Prerequisite: BIOL 218H or 317H.

BIOL 324H – 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: BIOL 102H and BIOL 218H or 317H.

BIOL 325H – 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: BIOL 102H, 103H, and 207H.

BIOL 327H – 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: BIOL 218H, 219H or 317H.

BIOL – CHEM 331H – The essence of metabolism (see Chemistry)**BIOL – CHEM 332H – Protein chemistry and enzymology (see Chemistry)****BIOL – PSYC 336H – 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. Field trip. Prerequisite: at least one credit in Biology at the 200 level including BIOL 216H.

BIOL – ANTH 341 – Human osteology and forensic anthropology (see Anthropology)**BIOL – ANTH 344H – Human genetics, growth and adaptability (see Anthropology)****BIOL – ANTH 346H – Biocultural explorations of human lifecourse (see Anthropology)****BIOL – ANTH 347H – Primate behaviour (see Anthropology)****BIOL – ANTH 349H – Primate evolution (see Anthropology)****BIOL 361H – 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 credit in Biology at the 200 level.

BIOL 362H – 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: BIOL 205H.

BIOL – PSYC 375H – Principles of the nervous system (see Psychology)**BIOL – PSYC 376H – Neuropsychology (see Psychology)**

BIOL 383H – 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: CHEM 100, BIOL 207H and Animal Care Course. Strongly recommended: CHEM 231H or 212.

BIOL 384H – Animal physiology II

Fundamental concepts in sensory, endocrine and reproductive physiology. Prerequisite: CHEM 100, BIOL 207H and Animal Care Course.

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

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

BIOL 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. 204). Open to students who have earned at least three credits in Biology in courses taught by members of the Trent Biology department, and who have achieved a cumulative average of at least 75%.

BIOL 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 three 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 BIOL 490, 491H, 492H and 493H.

BIOL 395, 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.

BIOL 396H – Herpetology

This course will provide an introduction to the biology of amphibians and reptiles. It will include an overview of past and current diversity, the use of amphibians and reptiles as model organisms for biological research, the importance of these animals in ecological communities, and issues in conservation and management. Prerequisite: at least two credits in Biology. (offered only in Oshawa)

BIOL 401, 402D – Research thesis

BIOL 402D is a double credit in Biology. BIOL 401 is a single credit involving the same thesis as submitted to the other department/program in a joint-major or with BIOL 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. 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 BIOL 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.

BIOL – ERSC 403H – 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. Excludes: BIOL 303H and GEOG 303H. Prerequisite: MATH 150 or BIOL – GEOG – ERSC 208H and a minimum of 10 credits including at least one second-year Biology credit.

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

BIOL 408H – 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: BIOL 207H and Animal Care Course.

BIOL 411H – 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, including BIOL 207H or 325H.

BIOL – ERSC 412H – Environmental carcinogenesis (see Environmental & Resource Science/Studies)**BIOL 414H – 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 two credits in Biology at the 200-level. Field trip at cost to student.

BIOL 416H – 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: BIOL 207H.

BIOL 417H – 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 BIOL 216H and 217H.

BIOL 418H – 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 BIOL 211H and either BIOL 216H or 217H.

BIOL 419H – 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: BIOL 383H.

BIOL 420H – Plant ecology

A study of the relationships of plants to one another and to their environment. Excludes: BIOL 321H. Prerequisite: BIOL 216H and 217H or permission of the instructor. Strongly recommended: BIOL 317H and 318H. Field work.

BIOL – ERSC 424H – Fisheries assessment and management (see Environmental & Resource Science/Studies)**BIOL 426H – 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: BIOL 207 or permission of the instructor. Prerequisite or co-requisite: BIOL 206H or 308H.

BIOL 428H – Physiological ecology of plants

An examination of how plants physiologically acclimate, adapt or suffer in response to their environment. Excludes: BIOL 328H. Prerequisite: BIOL 102H, 219H or 318H or permission of the instructor. Background knowledge of plant anatomy, ecology and physiology will be assumed. Recommended: BIOL 206H or 308H, 207H.

BIOL 432H – 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. Prerequisite: CHEM 100, BIOL 207H and BIOL 383H or 384H.

BIOL – ERSC 433H – Global change of aquatic ecosystems

This course will emphasize the causes and consequences of global environmental change and their interactions with ecological processes in freshwater ecosystems. Issues such as biodiversity, population growth and water use, global warming, land use, emergent diseases, dams, aquaculture, fisheries, water supply and sustainability will be discussed. Prerequisite: MATH 150, BIOL – ERSC 216H and BIOL – ERSC 217H. Recommended: GEOG – BIOL – ERSC 208H.

BIOL – CHEM 434H – Protein chemistry (see Chemistry)**BIOL – CHEM 435H – Bioinorganic chemistry** (see Chemistry)**BIOL 436H – 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. Excludes: BIOL 326H. Prerequisite: BIOL 325H.

BIOL 438H – 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. Excludes: BIOL 335H. Prerequisite: BIOL 206H or 308H.

BIOL – ERSC 439H – Conservation biology

Focusses 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: BIOL – ERSC 216H and 217H.

BIOL – CHEM 457D – Double credit project course in biochemistry (see Chemistry)**BIOL 460H – 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: BIOL 362H or permission of the instructor.

BIOL 462H – 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 credits.

BIOL – PSYC 484H – 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. Prerequisite: BIOL 384H or PSYC – BIOL 375H.

BIOL 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 BIOL 390, 391H, 392H and 393H.

BIOL 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. 7492

Fax: (705) 748-1409

E-mail: businessadmin@trentu.ca

Web: www.trentu.ca/businessadmin

Director of the Program

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

Professor

J. Bishop, B.A. (New Brunswick), M.A., M.B.A. (McMaster), Ph.D. (Edinburgh);

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); **K. Bates**, B.A. (Macalester College), Ph.D. (Minnesota); **K. Campbell**, B.A. (Trent), M.B.A. (Toronto); **R. Dart**, B.Sc. (Trent), M.E.S., Ph.D. (York); **D. Newhouse**, (Onondaga) B.Sc., M.B.A. (Western Ontario); **M. Quaid**, B.A. (McGill), M.Sc. (L.S.E.), D.Phil. (Oxford); **A. Zohar**, B.A., M.E.S., Ph.D. (York) (*on leave Winter term*)

Assistant Professor

A. El-Amir, B.A. (American University, Cairo), M.Sc. (Stirling), Ph.D. (Stirling); **E. Ng**, B.Com. (British Columbia), M.B.A. (Simon Fraser), Ph.D. (McMaster)

Lecturers

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 ADMN 100H, 101H, 102, and ECON 101H and 102H is required for the B.B.A. and the joint-major Honours B.A. or B.Sc. in Business Administration.
- 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 same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- The Business Administration program introduced revisions to degree requirements in September 2004 as set out below. Students who entered the program before then 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 Indigenous Management & Economic Development, see p. 138.
- 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 all Business Administration courses completed. 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 review 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

- ADMN 100H, 101H, 102, ECON 101H and 102H
- 2 additional credits

Year 2

- ADMN 202H, 222H, 251H, ADMN – ECON 220H and 225H
- 2.5 additional credits

Year 3

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

Year 4

- ADMN 400 and 410
- 3 additional credits

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

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

- ADMN 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.7492

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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 65% in each course and a cumulative average of 70% in all ten courses. 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**HRPAO Required Courses**

ADMN 102, 202H, 222H, 223H, 322H, 323H, 326H, 327H, 328H, and
ECON 350H

SPECIALIZATION IN INDIGENOUS MANAGEMENT & ECONOMIC DEVELOPMENT

See Indigenous Management & Economic Development (p. 138).

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

ADMN 100H – 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 ADMN 105.

ADMN 101H – 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 ADMN 105.

ADMN 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 ADMN 201H.

ADMN – NAST 190 – Introduction to management and management decision-making in contemporary Aboriginal organizations (see Indigenous Studies)**ADMN 202H – 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: ADMN 102 or 201H or permission of the instructor.

ADMN 208H – Managerial and Market Research

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: ADMN 100H and 101H. Excludes ADMN 308H.

ADMN – ECON 220H – Introduction to statistics for economics and management (see Economics)**ADMN 222H – 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: ADMN 100H or 101H or permission of the instructor.

ADMN 223H – 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: ADMN 222H or equivalent or permission of the instructor.

ADMN – ECON 225H – Introduction to mathematics for economics and management (see Economics)**ADMN 251H – 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: ADMN 100H or 101H. Excludes ADMN 250.

ADMN – COST 261H – Information systems for business and government (see Computer Science/Studies)

ADMN – COST 262H – Information systems analysis and design (see Computer Science/Studies)

ADMN – NAST 272 – Organizational behaviour in contemporary Aboriginal organizations (see Indigenous Studies)

ADMN 310H – 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: ADMN 100H and 101H or permission of the instructor.

ADMN 315H – 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: ADMN 310H.

ADMN 316H – 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: ADMN 310H. Strongly recommended: ADMN 315H.

ADMN 317H – Introduction to retail marketing

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

ADMN 320H – 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: ADMN 100H, ADMN 101H, and ADMN 102 or 201H.

ADMN 322H – 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: ADMN 222H and 223H.

ADMN 323H – 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: ADMN 222H and 223H.

ADMN 325H – 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: ADMN 100H and 101H or permission of the instructor.

ADMN 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: ADMN 222H and 223H or permission of the instructor.

ADMN 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: ADMN 222H and 223H.

ADMN 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: ADMN 222H and 223H.

ADMN 330H – Personal ethics in organizations and business

This course is 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: ADMN 100H and 101H or permission of the instructor. Excludes students who have completed ADMN 420 before 2002 – 2003.

ADMN – SOCI 333H – Social organizations (see Sociology)**ADMN 341H – 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: ADMN 100H and 101H or permission of the instructor.

ADMN 342H – 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: ADMN 251H or equivalent or permission of the instructor. Excludes ADMN 340.

ADMN 343H – 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: ADMN 102. Excludes ADMN 340.

ADMN 344H – Introduction to the third sector – nonprofit and nongovernmental organizations

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

ADMN 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: ADMN 251H or equivalent and ADMN 102.

ADMN 355H – Operations management, concepts and cases

This course is concerned with how organizations transform inputs into outputs, taking a systems approach to organizations. Students will learn to recognize and analyze operations of both service and manufacturing organizations, addressing the design of both types of organizations and the management of quality, inventory, and supply change issues. Prerequisite: ADMN 102, ADMN – ECON 220H and ADMN 251H or equivalent.

ADMN 395 – Special topics

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

ADMN 396H – Special topics – Investments

This course offers an introduction to the fundamental principles and concepts of the financial markets and instruments available in Canada. The course emphasizes understanding the investment background; developments in investment theory; valuation principles and practices, and ethical investments. Prerequisite: ADMN 102, 202H and 320H.

ADMN 397H – Special topics – Taxation

This course provides an opportunity for more intensive or broader study of the fundamental principles, concepts, and application of Canadian Federal income tax legislation. The course emphasizes understanding of the conceptual structure of the *Income Tax Act* and the application of its rules to practical cases. Prerequisite: ADMN 102 and 202H.

ADMN 398H – Special topics – International Business

Many organizations have become multinational enterprises, even small organizations. This course addresses how firms enter new markets for the purpose of producing or marketing products. Topics include exporting strategies, trade barriers, understanding local markets, virtual entry strategies, strategic alliances, contract manufacturers, market-oriented alliances, joint venture, cross-border acquisitions and wholly-owned subsidiaries. Prerequisite: ADMN 100H, 101H, 251H and ECON 311H.

ADMN 400 – Strategic management

The course focusses 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.

ADMN 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.

ADMN – PHIL 420 – Business ethics

This course 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); ADMN 330H or both PHIL 105 and 230.

ADMN 445H – Perspectives and practices for organizational sustainability

This course introduces students to the “triple bottom line” approach by 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: ADMN 251H or equivalent. Pre- or co-requisite: ADMN 350.

ADMN 465 – Family business

In a intensive seminar format, the course examines the current literature on family business, with specific attention to problem identification and theory development. Research methodologies appropriate to qualitative field work are reviewed to support individual and team-based field work. Restricted to single- and joint-major students with fourth-year standing in the B.B.A. degree program or joint-major Honours program.

ADMN 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. 204). Prerequisite: Approval of Director of the program normally before early registration.

ADMN 490 – Reading course

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

ADMN 491H, 492H, 493H – Reading course

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

ADMN 495, 497H, 498H – Special topics

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

ADMN 496H – Special topics – International Human Resource Management

This course examines the interplay between HR functions, types of employees, and countries of operations. The objective is to help students plan, implement, and evaluate IHRM programs that will be effective for organizations operating abroad. Topics covered include globalization and culture, multinational strategies, IHRM roles, cross-cultural management, and international assignments. Restricted to single- and joint-major students with fourth year standing in the B.B.A. degree program or joint-major honors program. Prerequisite: ADMN 223H.

ADMN 499 – Research project

This research-based course is 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

Chair of the Program

To be named

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.

Professors

J. S. Milloy, B.A. (St. Patrick's), M.A. (Carleton), D.Phil. (Oxford); **J. E. Struthers**, M.A. (Carleton), Ph.D. (Toronto), **J. H. Wadland**, M.A. (Waterloo), Ph.D. (York)

Associate Professors

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

Assistant Professors

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

Adjunct Faculty

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

Associated Faculty

Anthropology: **J. Harrison**, **A. Keenleyside**, **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**, **Z. H. Pollock**, **M. Steffler**. *Environmental & Resource Science/Studies*: **S. Bocking**, **R. Paehlke**, **T. Whillans**. *Geography*: **A. Bain**, **A. G. Brunger**, **S. Tufts**, **S. Wurtele**. *History*: **D. Anastakis**, **J. N. Jennings**, **J. Sangster**, **S. D. Standen**, **K. Walden**, **R. A. Wright**. *International Development Studies*: **D. R. Morrison**. *Politics*: **N. Changfoot**, **M. Smith**, **D. Torgerson**. *Sociology*: **D. Clarke**, **J. Conley**, **B. L. Marshall**, **D. Parnis**. *Women's Studies*: **M. Hobbs**.

Professor Emeritus

A. Wilson, M.A. (Dalhousie), Ph.D. (Toronto)

Canadian Studies is an interdisciplinary exploration of the concepts and practices of "Canadianness." Through a critical examination of themes such as sovereignty, nationalism, indigeneity, regionalism, multiculturalism, immigration, labour, and peacekeeping, as well as by exploring representations of Canada in film, art, and literature. Canadian Studies allows for a greater understanding of the diverse and often contested meanings of the Canadian experience and Canadian citizenship.

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.
- 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- At least one Indigenous 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 CAST – HIST 101 may count it as equivalent to CAST 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:

- CAST 100 or CAST – HIST 101, CAST – GEOG – ERST – NAST 204, CAST – POST – SOCI 300, CAST – POST – SOCI 305H, and CAST – ENGL 352H
- 3 credits in Canadian Studies at the 400-level
- 2 additional credits in Canadian Studies
- 1 credit in Indigenous Studies

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

- CAST 100 or CAST – HIST 101, CAST – GEOG – ERST – NAST 204, CAST – POST – SOCI 300, CAST – POST – SOCI 305H and CAST – ENGL 352H
- 2 additional credits in Canadian Studies at the 400-level
- 1 additional credit in Canadian Studies
- 1 credit in Indigenous Studies

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

- CAST 100 or CAST – HIST 101
- CAST – GEOG – ERST – NAST 204
- CAST – POST – SOCI 300
- CAST – POST – SOCI 305H
- CAST – ENGL 352H
- 2 additional credits in Canadian Studies
- 1 credit in Indigenous Studies

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

- CAST 100 or CAST – HIST 101, CAST – POST – SOCI 305H and CAST – ENGL 352H
- CAST – GEOG – ERST – NAST 204, or CAST – POST – SOCI 300
- 2 additional credits in Canadian Studies
- 1 credit in Indigenous Studies

DIPLOMA IN CANADIAN STUDIES

The Canadian Studies program offers a Diploma for students who wish to undertake a single academic year (September – April) focussed 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 CAST 100 or CAST – HIST 101 and one credit from each of categories A, B and C below (CAST – GEOG – ERST – NAST 204, CAST – POST – SOCI 300, CAST – POST – SOCI 305H and CAST – ENGL 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, NAST 100 is recommended.

A		B		C	
Studies in the Social Sciences		Studies in Regionalism and the Environment		Studies in Culture	
201	371H	204	324	228H	383
211H	373H	221H	326H	253	403
235	384H	222H	332H	254	408H
255	387H	230	333H	266	409H
260H	388H	232	337H	267H	420
261H	3962H	250	363H	275H	426
270	3972H	263H	364H	3071H	435
271H	398H	274H	372H	3072H	445
300	400	285	376H	316	455
304	424	3021H	378H	325	466
308	425	3022H	380H	351	475
309	440	3031H	406	352H	4954
322H	443	305H	407	356	4960
341H	450H	310	467H	361H	497H
362H	4952H	315			498H
366H	460H				
	476				
	477				

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

CAST 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.

CAST – POST 201 – Canadian politics (see Politics)

CAST – GEOG – ERST – NAST 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.

CAST – WMST 211H – The history of feminism in Canada (see Women's Studies)

CAST – HIST – POST 221H – "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 CAST – HIST 221.

CAST – HIST – POST 221H – “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 CAST – HIST 221.

CAST – HIST – POST 222H – 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 CAST – HIST 221 and CAST – HIST – POST 221H.

CAST – HIST – POST 228H – Canada in the 1960s: Irony and identity

The course explores the 1960s, a decade of shifting meanings of “Canadian.” The accent is on the ironies of Canadian identity. Topics include fiscal policy; youth cultures; the women's movement; racial identity and the Chuvato-Ali fight; sex scandals and politics; working-class revolt; upheavals in Quebec; and the challenge of aboriginal rights

CAST – HIST 230 – The making of Canada, 1760 – 1873 (see History)**CAST – HIST 232 – The history of education in the 19th and 20th century** (see History)**CAST – HIST 235 – Canada since 1914** (see History)**CAST – ERST 250 – Canadian natural resource theory and management** (see Environmental & Resource Science/Studies)**CAST – ENGL 2500 – Foundations in Canadian Literature** (see English Literature)**CAST – ANTH – NAST 253 – Aboriginal art of North America** (see Anthropology)**CAST – HIST 254 – Canada and the modern experience** (see History)**CAST – HIST – NAST 255 – History of the Indians of Canada** (see Indigenous Studies)**CAST – ECON 260H – Canadian economic development I: Up to 1929** (see Economics)**CAST – ECON 261H – The Canadian economy** (see Economics)**CAST – GEOG 263H – Historical geography** (see Geography)**CAST – ENGL – WMST 266 – Canadian women's writing**

Survey of Canadian women's prose fiction and life-writing from the nineteenth century to the present. Includes mainstream authors such as Moodie, Montgomery, Laurence, Munro and Atwood; less well known native, immigrant and (translated) francophone writers; and recent work by young authors.

CAST – NAST – HIST 270 – History and politics of the Métis (see Indigenous Studies)**CAST – GEOG 271H – Cities: An introduction to urban geography** (see Geography)**CAST – WMST 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. Excludes CAST – WMST 275.

CAST – WMST 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 CAST – WMST 275.

CAST – NAST 285 – Aboriginal People and the North (see Indigenous Studies)**CAST – POST – SOCI 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.

CAST – HIST 3021H – Quebec 1867 – 1930 (see History)**CAST – HIST 3022H – Quebec since 1930** (see History)**CAST – HIST 3031H – France in America to 1763** (see History)**CAST – HIST 304 – Canada and the world since 1900** (see History)**CAST – POST – SOCI 305H – 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.

CAST – HIST 306 – Canadian Intellectual History (see History)

CAST – HIST 3071H – Public history I (see History)

CAST – HIST 3072H – Public history II (see History)

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

CAST – POST 309 – Law and constitutional issues (see Politics)

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

CAST – ERST – WMST 315 – Women, health and the environments (see Women's Studies)

CAST – HIST – WMST 316 – Canadian women's history (see History)

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

CAST – GEOG – WMST 322H – Gender, society and space (see Geography)

CAST – HIST 324 – Canada: the North

The historical and contemporary Canadian North in both its arctic and sub-arctic contexts. Emphasis will be intellectual and social.

CAST – FREN 325 – Théâtre et poésie du Québec (see French studies)

CAST – POST 326H – North American Politics (see Politics)

CAST – GEOG 332H – Settlement geography (see Geography)

CAST – ERST – GEOG 333H – Wilderness resources (see Geography)

CAST – ERST 334H – The Canadian food system: A community development approach (see Environmental & Resource Science/Studies)

CAST – GEOG 337H – Critical geography of tourism (see Geography)

CAST – ENGL-NAST 3481H – Studies in native fiction (see English)

CAST – ENGL-NAST 3483H – Studies in native poetry (see English)

CAST – ENGL 3501H – Studies in Canadian literature: landscapes (see English)

CAST – ENGL 3503H – Studies in Canadian literature: genres (see English)

CAST – ENGL 3505H – Studies in Canadian literature: communities (see English)

CAST – ANTH 351 – Art, architecture and society (see Anthropology)

CAST – ENGL 352H – 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.

CAST – CUST 356 – Landscape and monuments (the wilderness) (see Cultural Studies)

CAST – POST 362H – Democratic strategy and public policy (see Politics)

CAST – GEOG 363H – Historical geography of Canada before 1900 (see Geography)

CAST – GEOG 364H – Geography of the Polar regions (see Geography)

CAST – POST 366H – Canadian political economy (see Politics)

CAST – POST – WMST 367 – Women and politics in Canada (see Politics)

CAST – GEOG 371H – Urban planning (see Geography)

CAST – GEOG – ERST 372H – Urban environments (see Geography)

CAST – GEOG 373H – Urban social geography (see Geography)

CAST – GEOG 376H – The rural-urban fringe (see Geography)

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

CAST – GEOG 380H – Regional economic geography of Canada (see Geography)

CAST 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. 204).

CAST – FREN 383 – Le roman québécois (see French Studies)

CAST – ECON 384H – Health economics (see Economics)

CAST – SOCI – WMST 387H – Immigrant women in Canada (see Women's Studies)

CAST – SOCI 388H – Canada compared (see Sociology)

CAST 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.

CAST 395, 396H, 398H – Special topics**CAST – ENGL – NAST – WMST 397H – Writing women's stories – Native women's work**

This reading course will address life writing and fiction of First Nations, Métis and Inuit women. Selections from the work of Maria Campbell, Beatrice Culleton, Alice French, Jovette Marchessault, Beth Brant, Jeannette Armstrong, Lee Maracle and Eden Robinson will be emphasized among others. Literary criticism by native writers and teachers such as Emma LaRoque will also be considered.

CAST – WMST – POST 3962H – Feminist legal issues I (see Women's Studies)**CAST – WMST – POST 3972H – Feminist legal issues II** (see Women's Studies)**CAST – ANTH 398H – Ethnographic representations of Canadian Aboriginal People** (see Anthropology)**CAST 401 – Single credit Honours thesis**

Arrangements to be made through the chair of the program.

CAST 402D – Double credit Honours thesis

Arrangements to be made through the chair of the program.

CAST – HIST 403 – History of night (see History)**CAST – POST 405 – Contemporary Canadian problems** (see Politics)**CAST – HIST 406 – Upper Canada 1784 – 1867** (see History)**CAST – HIST 407 – The Canadian-American frontier** (see History)**CAST – ANTH 408H – The tourist** (see Anthropology)**CAST – ANTH 409H – The sociocultural impacts of tourism** (see Anthropology)**CAST – HIST 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, and video art. Analysis is nested in the traditions of Canadian art history and the international literature on theories of visual culture.

CAST – IDST – POST 424 – Canada, globalization, and international development (see International Development Studies)**CAST – HIST – NAST 425 – The evolution of the settlement commonwealth** (see Indigenous Studies)**CAST – FREN 426 – Advanced Studies in Théâtre et Poésie du Québec** (see French Studies)**CAST – HIST – POST 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.

CAST – POST 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.

CAST – POST – WMST 443 – Women, the welfare state and globalization in Canada (see Women's Studies)**CAST – SOCI 445 – The media and communications in Canada** (see Sociology)**CAST-ENGL 4500/4501H Research seminar in Canadian literature** (see English)**CAST – ANTH 450H – Anthropology of race and racism** (see Anthropology)

CAST – SOCI – WMST 455 – The dynamics of difference: gender, disability, and Canadian cultural representations

This course explores how difference – especially who is labelled “different” – changes according to social, political and cultural factors and interests. We will focus on disability and its intersection with other identity-based categories including gender, race, and sexuality. Readings come from Canadian literature and film, critical theory, social policy and the mass media.

CAST – ERST – POST 460H – Public policy in global perspective (see Environmental & Resource Science/Studies)

CAST – ENGL – WMST 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.

CAST – ERST 467H – Environmental history (see Environmental & Resource Science/Studies)

CAST – HIST 475 – History of everyday life (see History)

CAST – HIST 476 – Canadian working class history (see History)

CAST – HIST – POST 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.

CAST – HIST 478 – North American popular culture (see History)

CAST – HIST 479 – Canadian Intellectual History (see History)

CAST 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. 204).

CAST 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.

CAST 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.

CAST – HIST 4903 – Issues in the History of Canadian foreign policy (see History)

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

CAST – CUST 4954 – Sacred texts (see Cultural Studies)

CAST – HIST 4957 – Continental quandary: Canada & the United States in the 20th Century (see History)

CAST – HISTORY 4960 – Ordinary (Canadian?) lives

Through autobiography and oral data relative to “place,” this course explores the transformative processes at work in the creation of a multi-cultural society, principally the revitalizing consequences inherent in immigration and migration to a new place, the role of resistance, and the persistence of cultural practices in that national formulation.

CAST – WMST 497H – Women at the edge: Voices from British Columbia

An interdisciplinary exploration of women's voices and experiences of B.C. as “environment” and “place” through fiction, poetry, biography, memoir, art and film. Environmental issues, cultural pluralism, First Nations self-determination, economic relations with the U.S.

CAST – WMST 498H – Women and collective resistance in Canada: Creative and spirited

An interdisciplinary exploration of collective acts of resistance and strategies by groups of women who struggled before us, with creativity and determination, from all regions of the country to promote diversity, peace, justice, and environmental protection.

Chemical Physics

Program Co-ordinators

Chair of the Chemistry Department

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

Chair of the Department of Physics & Astronomy

A. J. Slavin, M.Sc. (Toronto), Ph.D. (Cambridge)

Professors

See listing of faculty in Chemistry, Mathematics and Physics & Astronomy

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 same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- The program in Chemical Physics is a sequence of courses offered by the departments of Chemistry, Physics & Astronomy 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 & Astronomy.
- 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:

- CHEM 100, 200, 301H, 302H
- 2 of CHEM 401H, 408H, 423H or 441H
- PHYS 100, 202H, 203H, 321 and 400
- MATH 110, 205H and 305H
- MATH 200 or MATH 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:

- CHEM 100, 200 and 2 of 301H, 302H, 401H, 408H, 423H or 441H
- PHYS 100, 202H, 203H and 321
- MATH 110, 201H, 202H, 205H and 305H
- 1 additional credit in Chemistry or Physics beyond the 100-level

Chemistry

Telephone: (705) 748-1011 ext. 7505
Fax: (705) 748-1625

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

Associate Professor and Chair of the Department

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

Professors

P. Dillon, M.Sc., Ph.D. (Toronto); **E. G. Lewars**, B.Sc. (London), Ph.D. (Toronto);
J. M. Parnis, B.Sc., Ph.D. (Toronto); **I. Vshivchev**, M.Sc. (Moscow State), Ph.D. (USSR Academy of Sciences) (on leave 2006–2007)

Associate Professor

S. P. Rafferty, B.Sc. (Waterloo), Ph.D. (British Columbia); **A. J. Vreugdenhil**, B.Sc. (Queen's), Ph.D. (McGill)

Assistant Professors

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

Adjunct Faculty

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**

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, MRCS; **R. A. Stairs**, B.Sc. (McGill), M.Sc. (Western Ontario), Ph.D. (Cornell), FCIC

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

- CHEM 100 is a prerequisite for all upper-level Chemistry courses.
- A 4U Chemistry or equivalent is a prerequisite for CHEM 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.
- 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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 the instructor are prerequisites for CHEM 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:

- CHEM 100, 200, 212, 240H, 321H and 323H.
- CHEM – BIOL 231H
- CHEM – ERSC 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
- PHYS 100
- 1 credit in MATH 110 (or in MATH 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:

- CHEM 100
- 2 credits in Chemistry at each of the 200-, 300- and 400-levels
- 1 credit in MATH 110 (or in MATH 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:

- CHEM 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:

- CHEM 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, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

CHEM 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: 4U Chemistry or equivalent or permission of the instructor (see notes).

CHEM 155H – 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: 4U chemistry or equivalent. Open only to students enrolled in the B.Sc.N. program.

CHEM 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: CHEM 100; MATH 110 or MATH 105H or permission of the instructor.

CHEM 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: CHEM 100.

CHEM – BIOL 231H – Biochemical concepts

This course introduces key molecules and concepts in biochemistry. Topics include the properties of water, the behaviour of biomolecules in water, protein structure and function, and enzyme properties and regulation. Computer labs introduce students to molecular graphics and electronic accessing of biochemical information such as biomolecular structures, protein sequences, and scientific literature. Prerequisite: CHEM 100.

CHEM 240H – Analytical chemistry

The theory of chemical equilibrium as it applies to chemical analysis; experiments in gravimetric and volumetric analysis. Prerequisite: CHEM 100.

CHEM – ERSC 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: CHEM 100. Students are encouraged to enrol in CHEM 200 before or concurrently with CHEM 241. Excludes CHEM 241H.

CHEM 301H – 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: CHEM 200 and MATH 110 or permission of the instructor. Recommended: MATH 200 or MATH 201H and 202H.

CHEM 302H – 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: CHEM 200 and MATH 110 or permission of the instructor. Recommended: MATH 200 or MATH 201H and 202H.

CHEM 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: CHEM 212. Strongly recommended: CHEM 200.

CHEM 321H – 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: CHEM 200.

CHEM 323H – 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. Prerequisite: CHEM 200.

CHEM – BIOL 331H – The essence of metabolism

This course addresses the following question: how does life extract energy from its surroundings, and what does it do with this energy? Topics will include the nature of high-energy biomolecules, the pathways by which they are formed, their use in biosynthesis of other molecules, and how these pathways are regulated. Prerequisite: CHEM – BIOL 231H and CHEM 212. Excludes CHEM – BIOL 330.

CHEM – BIOL 332H – Protein chemistry and enzymology

This course deals in detail with the properties of proteins, as well as their purification and biophysical characterization. It will also emphasize the catalytic properties of enzymes. In the laboratory component the student will design and execute their own enzyme purification scheme, extending the skills they obtained in CHEM – BIOL 331H. Prerequisite: CHEM – BIOL 331H. Excludes CHEM – BIOL 330.

CHEM – ERSC 342H – Spectrophotometry and spectroscopy

Modern analytical spectroscopic instrumentation, techniques and application to the analysis of organic, inorganic and biochemical contaminants with a particular focus on the forensic and environmental fields are addressed. Prerequisite: CHEM 240H. Strongly recommended: CHEM 212.

CHEM – ERSC 343H – Chromatography

Theory and practice of chromatography, sampling and quality control. Particular emphasis will be placed on applications in environmental analysis. Prerequisite: CHEM 240H.

CHEM 401H – 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: CHEM 200.

CHEM 408H – 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: CHEM 200. Recommended: CHEM – ERSC 241H.

CHEM 410H – Qualitative spectroscopic analysis

Application of UV-visible, infrared, nuclear magnetic resonance and mass spectrometry to the elucidation of molecular structure. Prerequisite: CHEM 200 and 212.

CHEM 412H – 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: CHEM 310.

CHEM 413H – Computational chemistry

The use of molecular mechanics, semi-empirical *ab initio* methods in the investigation of molecular structure and reactivity. Prerequisite: CHEM 200 and 212.

CHEM 421H – 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: CHEM 321H or both CHEM 323H and 423H.

CHEM – PHYS 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 CHEM 301H, 302H, 321H, 323H, PHYS 203H or permission of the instructor.

CHEM 423H – 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: CHEM 323H or both CHEM 321H and 421H.

CHEM – BIOL 434H – 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: CHEM – BIOL 330 or 331H and 332H.

CHEM – BIOL 435H – 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: CHEM – BIOL 330 or CHEM 321H (pre- or co-requisite).

CHEM 441H – Mass spectrometry

An introduction to the principles and modern applications of mass spectrometry in chemical analysis. Topics include: fundamentals of ion chemistry, ionization techniques, mass-analyzer and detector design, and applications of hybrid and tandem instrumental design in analytical and organic chemistry and biochemistry. Prerequisite: CHEM 200.

CHEM – ERSC 442H – Advanced analytical chemistry

Theory of spectrometric techniques for elemental analysis. Students will become acquainted with the current literature and research in analytical/environmental chemistry. Prerequisite: CHEM – ERSC 342H or 343H or permission of the instructor.

CHEM 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.

CHEM 452D – Double-credit project course in chemistry

About 16 hours per week; otherwise, as CHEM 451.

CHEM 453H, 454H, 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.

CHEM 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 CHEM or BIOL 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.

CHEM – BIOL 457D – Double credit project course in biochemistry

At least 16 hours per week; otherwise as CHEM 456. May not be combined with any other project courses for credit toward the Biochemistry & Molecular Biology degree.

CHEM 490, 491H, 492H, 493H – 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.

CHEM 4971H – 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 CHEM 413H. Interested students should contact the co-ordinator during the Fall. Prerequisite: CHEM 413H.

Computer Science/Studies

Telephone: (705) 748-1011 ext. 1495

Fax: (705) 748-1066

E-mail: compstudies@trentu.ca

Web: www.trentu.ca/computerstudies

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) (*on leave Winter term*)

Associate Professors

B. G. Patrick, B.C.S. (Concordia), M.Sc. (Queen), Ph.D., M.B.A. (McGill); **S. B. Regoczei**, M.Sc. (Toronto); **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. (Touro); **K. Gregory**, Ph.D. (Toronto); **P. J. Northrop**, ISP; **J. Palbom**, B.A. (Trent), B.Ed. (York); **W. Rowland**, M.A. (Trent), Ph.D. (York)

Laboratory Demonstrator

J. Mitchell, B.Sc. (Trent)

Trent University 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 COSC 401H and COSC 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).
- COSC – MATH 207H, 415H and 416H are counted as 300-level courses towards the B.Sc. degrees 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: COSC 300H, 362H, 410H
 - B. Systems: COSC 338H, 431H, 432H, 435H, COSC – PHYS 325H
 - C. Data Management: COSC 340H, 360H, 364H
 - D. Applications: COSC 342H, 347H, 355H, 358H, 455H, COSC – MATH 207H.
- For the 2006–2007 academic year, students enrolled in the 3rd year of the Honours B.Sc. Programs should enrol in COSC 401H in the fall term followed by COSC 304H in the winter term.

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

- COSC 102H, 104H, 202H, 230H, 232H, 304H, 305H, 332H, 401H, 402 and COSC – MATH 260
- 1 additional credit in Computer Science at the 400-level
- 2 additional credits in Computer Science at the 300- or 400-level
- 1.5 additional credits in Computer Science
- of the credits in Computer Science, at least 9 in COSC, at least 1 in Computer Studies and at least 0.5 from each of categories A, B, C and D listed above
- MATH 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. The program must include:

- COSC 102H, 104H, 202H, 230H, 232H, 304H, 401H, 402 and COSC – MATH 260
- 1 additional credit in Computer Science at the 400-level
- 1.5 additional credits in Computer Science at the 300- or 400-level
- of the credits in Computer Science, at least 5.5 in COSC, at least 1 in Computer Studies and at least 0.5 from each of categories B and C listed above

- MATH 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. The program must include:

- COSC 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 at the 300- or 400-level
- 1.5 additional credits in Computer Science
- of the credits in Computer Science, at least 5 in COSC, at least 1 in Computer Studies and at least 0.5 from any two categories listed above
- 1 credit from MATH 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. The program must include:

- COSC 102H, 104H, 202H, 230H, 232H, 304H, 332H, 340H and COSC – MATH 260
- 2 additional credits in Computer Science at the 300- or 400-level
- 0.5 additional credit in Computer Science at the 300- or 400-level
- 1 credit from MATH 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, at least 2 at the 300- or 400-level
- 1 credit from MATH 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, 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, 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:

- COSC 102H, 104H, 202H, 230H and 232H
- 1.5 additional credits in Computer Science
- 1 additional credit in Computer Science
- of the credits in Computer Science, at least 2 at the 300- or 400- level
- 1 credit from MATH 105H, 110, 135H or 155H

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

COSC 102H – 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. Excludes COSC 152H.

COSC 104H – 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: COSC 102H.

COSC 151H – Introduction to computer science with applications

An introduction to general principles of computing and programming with practical experience in modern applications including spreadsheets, database management systems, presentation software and webpage design. 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. Not to be counted toward a major in the Computer Science/Studies B.Sc. programs. Excludes COST 101H.

COSC 152H – 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: COSC 151H or equivalent. Not to be counted toward a major in the Computer Science/Studies B.Sc. programs. Excludes COSC 102H, 250H and COST 150H.

COSC 202H – 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: COSC 104H. Recommended: MATH 105H or 110.

COSC 204H – 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: COSC 104H.

COSC – MATH 207H – Introduction to numerical and computational methods (see Mathematics)**COSC – PHYS 225H – Electronics (see Physics & Astronomy)****COSC 230H – Computer organization**

An introductory investigation of computer architecture and assembly language programming. Topics will include the memory hierarchy, the central processing unit, multiprocessor computers, and I/O organization. We also examine assembly language programming on an emulated CPU. Prerequisite: COSC 102H. Excludes COSC 230.

COSC 232H – Digital logic

The objective of the course is to provide a solid foundation in Boolean algebra, truth tables, Karnaugh maps, minimization of circuits, adders, multiplexors, flip-flops, sequential logic design and memory circuits. By investigation of digital logic circuits, it provides the students with a deeper understanding of the internal workings of microprocessors and memory chips. Prerequisite: Computer Science 102H. Recommended: MATH 130 or 135H. Excludes COSC 230.

COSC – PHYS 231H – Computational Physics (see Physics & Astronomy)**COSC – PHIL 240H – Symbolic logic (see Philosophy)****COSC – MATH 260 – Discrete structures (see Mathematics)**

COST – ADMN 261H – Introduction to information systems

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. Open to first-year students.

COST – ADMN 262H – 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. Open to first-year students.

COST 280H – Introduction to digital culture

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, social domains, weblogs and the blogosphere. Open to first-year students.

COST 283H – 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. Open to first-year students.

COSC 300H – Algorithms

Key algorithmic techniques, including divide and conquer, dynamic programming, greedy algorithms, approximation algorithms, and search are applied to a variety of problems. Proofs of correctness and time complexity analysis are also covered. Prerequisite: COSC 202H.

COSC 304H – 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. Prerequisite: COSC 202H, 0.5 credit from COSC 300H, 305H, 332H, 338H, 340H and 401H.

COSC 305H – 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: COSC 202H.

COSC – PHYS 321 – Electricity and magnetism (see Physics & Astronomy)**COSC 332H – 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: COSC 202H and 230. Excludes COSC 430.

COSC – MATH 335H – Linear programming (See Mathematics)**COST – PHIL 337H – Cyberethics (see Philosophy)****COSC 338H – 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: COSC 202H and 230.

COSC 340H – 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: COSC 104H.

COST – PHIL 341H – Logic and logical theories (see Philosophy)

COSC 342H – Web application development

Web application development in a theoretical context, covering key underlying concepts as well as a critique and comparison of various web application tools. Topics will include client side components, design considerations, server side components, database connectivity, web application architecture, and methodologies for design, development and testing of web applications. Prerequisite: COSC 202H. Recommended: COSC 340H (may be taken concurrently).

COST 345H – Societal impact of digital 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 COST – ADMN 261H, 262H, COST 280H, 283H, COSC 102H, 151H.

COSC 347H – 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: COSC 202H. Recommended: MATH 155H or equivalent.

COST 348H – Data modelling/world modeling

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: COST – ADMN 261H or 262H.

COST 350H – 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.

COSC 355H – 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: COSC 104H.

COSC 358H – Advanced concepts in visual programming

This course deals with many of the advanced topics, concepts and applications in computer science made possible by software engineered using the Java programming language. Topics include: multithreading, networking, database connectivity, 2D and 3D APIs, Java beans, security, remote method invocation, peer-to-peer systems and CORBA. Prerequisite: COSC 204H.

COSC 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: COST – ADMN 261H or 262H.

COSC 362H – 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: COST – ADMN 262H or COSC 104H.

COST – ANTH 363H – Computer applications in anthropology (see Anthropology)**COSC 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: COSC 202H; or both COST – ADMN 262H and COSC 102H.

COST 397H – Special topic: Online business principles

Leveraging the power of the Internet to do business. Topics covered in this course will include how to expand traditional business practices online, in the areas of: starting a division or company, marketing, protecting brand and intellectual property, usability, customer relationship, employee and supplier management, payment. Prerequisite: one of COST 280H, 345H, COST – ADMN 261H, ADMN 310H or permission of the instructor.

COSC 401H – Software engineering: Theory

This course covers the theory necessary for the project component in COSC 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: COSC 202H.

COSC 402 – Software engineering: Project

This course continues on from COSC 401H with the implementation of the group software engineering project. Prerequisite: COSC 202H, 304H and 401H; 0.5 credit in COSC 300H, 305H, 332H or 338H; and an additional 0.5 credit in COSC at the 300- or 400-level. Excludes COSC 400.

COSC 410H – Comparative programming languages

The features and implementation issues of procedural, object-oriented, functional, and logical programming languages are presented, critiqued and compared. Prerequisite: COSC 202H and one Computer Science credit at the 300- or 400-level.

COSC – MATH 415H – Mathematical logic (see Mathematics)**COSC – MATH 416H – Computability** (see Mathematics)**COSC 431H – 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: COSC 202H and 332H.

COSC 432H – 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: COSC 202H and 332H.

COSC 435H – 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: COSC 202H and 332H.

COSC 455H – 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 (brute force and informed), two-person game playing (minimax and alphabeta) and automated theorem proving (resolution refutation and unification). Prerequisite: COSC 202H and a COSC half credit at the 300- or 400-level. Recommended: MATH – COSC 260.

COSC/COST 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.

COSC 498H – Special topic: Abstractions, systems-models, and conceptual

The study of conceptual automata, such as digital processors, gives us enhanced capability for dealing with abstractions. We use conceptual and sortal analysis of text, images, and things to construct abstract conceptual models. Conceptualizing the referent world in terms of systems models, ontologies, lifecycles, conceptual frameworks, multimedia, and enterprise models will be emphasized. Prerequisite: COST-ADMN 262H or COST 283H.

Computing & Physics

Program Co-ordinators

Chair of Computer Science/Studies

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

Chair of Physics & Astronomy

A. J. Slavin, M.Sc. (Toronto), Ph.D. (Cambridge)

Professors

See listing of faculty in Computer Science/Studies, Mathematics and Physics & Astronomy.

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 same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- The Honours Program in Computing & Physics is a sequence of courses offered by the Computer Science/Studies program, the Mathematics Department and the Department of Physics & Astronomy 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 & Astronomy.

The single-major Honours program. At least 5 credits in Computer Science, 5 in Mathematics and 5.5 in Physics, including:

- COSC 102H, 104H, 202H, 230H, 232H, 304H, 332H, and any 2 of 431H, 432H, 435H
- 0.5 credit from COSC 338H, 340H, 347H or 358H
- MATH 110, 135H, 155H, 201H, 202H, MATH – COSC 260, MATH – PHYS 205H and 305H
- PHYS 100, 202H, 203H, 400, PHYS – COSC 321 and either PHYS – COSC 225H or PHYS – COSC 230H
- at least 2 of PHYS 421H, 424H, 431H, 441H, 450H or 470H

Cultural Studies

Telephone: (705) 748-1011 ext. 1771

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E-mail: cultstudies@trentu.ca

Web: www.trentu.ca/cultural_studies

Professor and Chair of the Program

A. Wernick, B.A., M.A. (Cambridge), M.A., Ph.D. (Toronto)

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); **V. Hollinger**, M.A. (Concordia), M.Ed. (Newcastle-upon-Tyne), Ph.D. (Concordia); **S. Kane**, B.A. (Carleton), M.A., Ph.D. (Toronto); **D. Torgerson**, B.A. (California-Berkeley), M.E.S. (York), M.A., Ph.D. (Toronto)

Associate Professors

Z. Baross, B.A. (UBC), M.A. (London), Ph.D. (Amsterdam); **J. Bordo**, B.A. (McGill), M.A. (Alberta), M.Phil., Ph.D. (Yale) (*on leave 2006–2007*); **V. de Zwaan**, B.A. (Trent), M.A. (McGill), Ph.D. (Toronto); **A. O'Connor**, B.A. (Trinity College, Dublin), M.A., Ph.D. (York) (*on leave 2006–2007*)

Assistant Professors

I. Junyk, B.A. (Western), M.A. (Queens), Ph.D. (Chicago), **M. Morse**, B.A. (McGill), M.A., Ph.D. (York); **J. Penney**, B.A., M.A. (Alberta), Ph.D. (Duke) (*on leave Winter term*)

Adjunct Faculty

M. Blyth, B.A. (Toronto), M.A. (York); **M. Cherry**, A.O.C.A.; **G. Murphy**, B.A., M.A. (Carleton), Ph.D. (Alberta); **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)

Professors Emeriti

I. McLachlan, M.A. (Oxford); **D. Smith**, M.A., D.Phil. (Oxford), **D. F. Theall**, B.A. (Yale), M.A., Ph.D. (Toronto)

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.

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.
- 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 same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- The following courses are recommended for first-year students who are considering a major in Cultural Studies: AHCL 150, ENGL 100, HIST 120, PHIL 101, SOCI 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	
211	346	222	424	220	230	3952
216	356	225	425	235	231	450
217	370	226	429	280	250	4952
245	375	229	4953	332	260	49510
246	470	322	4954	380	265	49511
270	4951	325		381	350	49512
305	4958	329		385	356	
311	49513	3400/3401H		3953	357	
315		355		435		
345				480		
				49514		

- 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 CUST 390, 391H, 392H, 490, 491H and 492H. Registration in reading courses is contingent on permission of the instructor and of the chair of the program before registering. The deadline for submission of an outline is March 31 for reading courses to begin in the next Fall session and November 30 for reading courses to be taken in the Winter session. Students wishing to take more than one CUST 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:

- CUST 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:

- CUST 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:

- CUST 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:

- CUST 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, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

CUST 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? Field trip and reading package fee: \$50.

CUST 211 – Drawing

A basic drawing course exploring techniques and ideas in the visual arts. Historical and contemporary issues are examined through practical hands on experiences. Open to Cultural Studies majors and students with the pre- or co-requisite CUST 216, 217 or 315 or permission of the chair of the program. Art materials fee: \$75. Enrolment limited to 20.

CUST 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. Fees between \$40 and \$70.

CUST 217 – Introduction to visual studies (workshop)

The course follows the agenda of CUST 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 CUST 216. Co-requisite: CUST 216. Studio space provided with regular group discussions. Fee: \$75.

CUST – WMST 220 – Women and popular culture (see Women's Studies)

CUST 222 – Culture in the novel

Organised into thematic sections, the course examines nineteenth century European novels by Flaubert, Dostoevsky, and Manzoni alongside twentieth century German, British, Argentinian, Japanese, and American novels by such authors as Allende, Grass, Oe, and Woolf, engaging complex issues concerning cultural and aesthetic contexts.

CUST 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.

CUST 226 – Storytelling workshop

An exploration of the world of story by enacting the storymaker'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.

CUST – ENGL 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.

CUST – NAST 230 – An introduction to the key concepts and issues in post-colonial theory
(see Indigenous Studies)

CUST 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 CUST – SOCI 240.

CUST 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. Field trip fee: \$45.

CUST 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.

CUST 260 – The making of the modern body

Focusses 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.

CUST – WMST 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.

CUST 270 – History and theory of theatre

An introduction to theatre as both a performing art and a means of cultural expression. Examines Western theatrical practice and dramatic theory from Classical Greek tragedy to late nineteenth century realism. Topics include acting styles, theatre design, the audience and the institution of theatre in relation to religion, morality and politics.

CUST 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. Field trips fee: \$10.

CUST 305 – Modernism and the avant-garde

This course examines one of the most important cultural movements of the twentieth century – modernism. It traces this movement from its genesis in the dynamic city culture of the fin de siècle, to its embodiment in avant-garde art, literature, and cinema, and concludes by considering its problematic transition into "postmodernism."

CUST 311 – Visual arts studio: Form, process, object (and image)

An introductory studio exploring the making of two and three dimensional works using a variety of materials and techniques. Emphasis is placed on the free exploration of material and concepts, with attention to space, form, image, scale and site. Open to Cultural Studies majors and students with the pre- or co-requisite CUST 216, 305 or 315 or permission of the chair of the program. Enrolment limited to 20. Art materials fee: \$75.

CUST 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.

CUST 322 – Experimental fiction

The course traces an international "tradition" of modern and contemporary experimental texts, focussing 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.

CUST 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.

CUST – ENGL 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.

CUST – IDST 332 – Media and development

Issues of the use of media for development, global mass media, the Internet and the digital divide, and alternative media such as community radio. Considered in the context of global cultural studies: debates about local culture, intellectual life in developing countries cultural hybridity and postmodernism.

CUST – ENGL 3400/3401H – Studies in Victorian Literature and society (see English Literature)

CUST 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: CUST 245 or permission of the instructor. Field trip fee: \$45.

CUST 346 – Audio/music 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. Pre- or co-requisite: CUST 245 or 345 or permission of the program. Workshop fee \$40.

CUST – ANTH 350 – The crisis of modern critical discourse: The “return of the religious”

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.

CUST – ENGL 355 – Sexuality and textuality

How sex(es) become texts and vice-versa, focussing 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.

CUST – CAST 356 – Landscape and monuments (the wilderness)

A course in visual studies examining landscape and monuments through the symbolics of wilderness. Considers texts and other documents going back to early explorer and colonizing narratives and critically situates The Group of Seven in the context of modernism and European cultural history. Field trip fee up to \$50.00.

CUST – POST 357 – Cultural politics (see Politics)

CUST 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 Wertenbaker.

CUST 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: CUST 270 or 370 or permission of the chair of the program. Workshop fee: \$50. Enrolment limited to 20.

CUST 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.

CUST 381 – World cinema

With attention especially to national and regional cinema outside Hollywood, the course engages with contemporary film theory to consider such topics as: the relation between cinema,

the state, and social movements; globalization and the local; gender and film; and the effects of exile and marginality on film theory and practice.

CUST 385 – Film workshop

Students carry out a series of visual exercises in photography and Super-8 film and then complete a short 16mm film. Depending on the instructor, the emphasis may be on documentary or experimental filmmaking. Pre- or co-requisite: any film or mass media course.

CUST 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. 204).

CUST 390 – Reading course

A course of individual study supervised by a faculty member. The proposed syllabus requires permission of the instructor and of the Chair of the Program prior to registering in the course. Proposals should be submitted by March 31 for reading courses due to begin in the following term.

CUST 391H, 392H – Reading course

A course of individual study supervised by a faculty member. The proposed syllabus requires permission of the instructor and of the Chair of the Program prior to registering in the course. Proposals should be submitted by March 31 for reading courses to begin in the following Fall session, and by Nov 30 for reading courses due to be taken in the Winter session.

CUST 395 – Special topics in Cultural Studies

In 2006–2007, one special topic course will be:

CUST 3953 – Images of crime

Changing images of crime and justice, rebellion, law and order, explored through hardboiled fiction (e.g., Hammett, Chandler, Mosley, Ellroy) and film noir, together with relevant cultural theory.

CUST 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 May 1 in the student's third year.

CUST 424 – Creative writing and performance

Focussing 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. CUST 225 or 226 is a valuable pre- or co-requisite, but admission is by permission of the instructor following submission of a portfolio by May 1.

CUST – ENGL 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, Coleridge, Shelley, Eliot, Richards, Frye, Fish, Lukacs, Barthes, Foucault, Cixous, and Homi Bhabha. Excludes CUST 325.

CUST 429: Advanced studies in science fiction

Current special topic: "Speculative Fiction and Contemporary Technoculture." Examines representations of the subject constituted in Western technoculture, including posthuman configurations such as the robot, the cyborg, and artificial and virtual intelligences. Fictional and critical/theoretical speculations examine changing understandings of subjectivity, agency, the body, and community in the context of advanced technologies. Prerequisite: CUST – ENGL 229 or CUST – ENGL 329.

CUST 435 – Advanced topics in mass media and popular culture

Theoretical perspectives on the history, economy and politics of selected aspects of mass media and popular culture. Previous topics have included zines and underground culture, and the work of Pierre Bourdieu.

CUST 450 – Advanced studies in cultural theory

A study of the "return of the religious" and the crisis of critical discourse. The seminar turns to examine the reappearance of a "religious tone" in contemporary theoretical discourse (by Derrida, Cixous, Nancy, Levinas, and Bataille).

CUST 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: CUST 270 or 370.

CUST 480 – Advanced studies in film

A critical consideration of Cinema and Film Studies.

CUST 490 – Reading course

A course of individual study supervised by a faculty member. The proposed syllabus requires permission of the instructor and of the Chair of the Program prior to registering in the course. Proposals should be submitted by March 31 for reading courses due to begin in the following term.

CUST 491H, 492H – Reading course

A course of individual study supervised by a faculty member. The proposed syllabus requires permission of the instructor and of the Chair of the Program prior to registering in the course. Proposals should be submitted by March 31 for reading courses to begin in the following Fall session, and by Nov 30 for reading courses due to be taken in the Winter session.

CUST 495 – Special topics in Cultural Studies

Following are examples of special topics courses which may be offered by the program in any given year:

CUST 4951 – Special topic: Art, culture, theory (mimesis)

Explores the idea of culture as a double and its dependency upon the "artwork." Through an engagement with the core writing of de Saussure, Freud and Benjamin addresses mostly visual art and the aesthetic dimension of cultural theory. Field trip fees of up to \$50.00.

CUST 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."

CUST – ENGL 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.

CUST – CAST 4954 – Special topic: Sacred texts

Comparative study of myths from the Pacific Northwest, Gaelic, Ancient Greek and biblical traditions, with a view to exploring some principles of oral narrative thought.

CUST 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.

CUST – POST 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.

CUST 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.

CUST 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.

CUST 49513 – Spectacle and modernity

This course examines the centrality of spectacle in the visual culture of modernity. Considering diverse forms of elite, popular, and mass culture (including festivals, waxworks, opera, and cinema), it looks at the key role of spectacle in the construction of modern forms of subjectivity, national identity, gender, and sexuality.

CUST 49514 – The culture of cool

This course explores the culture of cool by examining the discourse of value through the theoretical works of, among others, Barbara H. Smith, Georges Bataille, and Malcolm Gladwell as well as popular phenomena such as Miles Davis and the birth of cool jazz, the blockbuster film, and Hip-Hop.

Economics

Telephone: (705) 748-1011 ext. 7331

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); **S. Choudhry**, M.A. (Chittagong, Bangladesh), M.A. (McGill), Ph.D. (Manitoba); **D. C. A. Curtis**, M.A. (Queen's), Ph.D. (McGill); **H. M. Kitchen**, M.A. (McMaster) (*on leave Winter term*)

Associate Professors

B. Cater, M.A. (Toronto), Ph.D. (York) (*on leave Fall term*); **B. Lew**, B.Sc. (Alberta), M.B.A. (Alberta), Ph.D. (Queen's); **J. Muldoon**, B.Sc. (Brock), M.A. (Guelph), Ph.D. (McMaster)

Assistant Professors

A. Ma, B.A. (Toronto), Ph.D. (Harvard)

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)

Economics is the academic discipline most discussed by the general public. It is also one of the least understood. Economics is the social science that deals with problems of scarcity. It does so through a systematic and logical framework for analyzing how a society solves such problems as what goods and services to produce, how to organize production, and for whom goods and services are to be produced. Knowledge of economics is necessary for understanding and dealing intelligently with such current topics as unemployment, economic growth, income inequality, the environment, globalization, and various forms of market regulation. Besides being important for understanding contemporary social issues, economics is useful in developing career skills for business, law, teaching, public administration and research. Both verbal and mathematical training are involved in learning the discipline of economics.

Notes

- C- (60%) or higher in ECON 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 ECON – ADMN 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.
- 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 same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- The Economics department offers both a B.A. and a B.Sc. degree.
- ECON – ADMN 220H and ECON 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 ECON – ADMN 220H and 225H before fourth year.
- It is strongly recommended that students in the single-major program complete ECON 320H and 325H before fourth year.
- ECON 401 is now optional and may be substituted (by economics majors only) for ECON 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:

- ECON 101H, 102H, 200H, 201H, 300H, 301H, 320H, 325H, 400H, 404, 405H, ECON – ADMN 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:

- ECON 101H, 102H, 200H, 201H, 400H, 404, 405H, ECON – ADMN 220H and 225H
- 0.5 credit in Economics at the 400-level
- 2 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:

- ECON 101H, 102H, 200H, 201H, ECON – ADMN 220H and 225H
- 3 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:

- ECON 101H, 102H, 200H and 201H
- 3 additional credits in Economics
- for the B.Sc., 11 science credits in the program as a whole, including ECON – ADMN 220H and 225H

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

ECON 101H – 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.

ECON 102H – 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.

ECON 200H – Intermediate microeconomic theory I (Sc)

An examination of problems of demand and supply, market equilibrium and market structure. 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: ECON 101H, 102H. Excludes ECON 200.

ECON 201H – Intermediate macroeconomic theory I (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: ECON 101H, 102H. Excludes ECON 201.

ECON – ADMN 220H – 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: ECON 101H, 102H.

ECON – ADMN 225H – 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: ECON 101H, 102H.

ECON – CAST 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: ECON 101H, 102H.

ECON – CAST 261H – 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; macro-economic stabilization and social welfare; trends in employment and unemployment; exchange rate policy; fiscal policy and government budget deficits. Prerequisite: ECON 101H, 102H.

ECON 300H – Intermediate microeconomic theory II (Sc)

A continuation of ECON 200H to examine the theory of general equilibrium, factor markets, externalities, public goods and asymmetric information. Game theory will be introduced. Prerequisite: ECON 200H. Excludes ECON 200.

ECON 301H – Intermediate macroeconomic theory II (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: ECON 201H. Excludes ECON 201.

ECON 302H – Financial Economics

An introduction to the economic analysis of investment decisions and financial markets. Key concepts include present-value formula, market efficiency, portfolio choice, risk, arbitrage, and asymmetric information. Prerequisite: ECON 101H, 102H.

ECON 311H – 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 political economy of trade policy. The role and performance of international organizations. Environmental aspects of trade. International labour standards and trade. Prerequisite: ECON 101H, 102H. (support course for International Development Studies)

ECON 312H – 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: ECON 101H, 102H. (support course for International Development Studies)

ECON 316H – 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: ECON 101H, 102H.

ECON 317H – 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: ECON 101H, 102H. Excludes ECON 217H.

ECON 320H – 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: ECON – ADMN 225H, 220H (or equivalents). Pre- or co-requisite: ECON 200H, 201H or permission of the instructor.

ECON 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: ECON 320H.

ECON 325H – Mathematical economics and economic models (Sc)

A continuation of ECON – ADMN 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: ECON – ADMN 225H (or equivalents). Pre- or co-requisite: ECON 200H, 201H or permission of the instructor.

ECON – IDST 331H – 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 ECON 330, ECON – IDST 231H. Prerequisite: ECON 101H, 102H.

ECON – IDST 333H – The economics of global interdependence (Sc)

The world economy and the place of less developed nations in an increasingly interdependent global system. Topics include: a market-friendly strategy for the poor; globalization and its impacts; the growing literature on foreign aid and debt; the oil crisis; water scarcity and the potential for international water conflicts. Prerequisite: ECON 101H, 102H.

ECON 340H – Managerial economics

A study of the various ways in which microeconomic principles and quantitative tools can be used to aid managers in making sound decisions. Topics include forecasting consumer demand, production and cost analysis, optimal pricing and production decisions, optimal hiring and investment decisions, and capital budgeting. Prerequisite: ECON 101H, 102H.

ECON 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: ECON 200H. Pre- or co-requisite: ECON – ADMN 225H or equivalent.

ECON 350H – 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: ECON 101H, 102H.

ECON 351H – 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: ECON 101H, 102H.

ECON 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: ECON 101H, 102H.

ECON 362H – 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: ECON 101H, 102H.

ECON – ERST – CAST 378H – Canadian renewable resource economics (see Environmental & Resource Science/Studies)**ECON – ERST 381H – 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: ECON 101H, 102H or permission of the instructor.

ECON – CAST 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: ECON 101H, 102H or permission of the instructor.

ECON 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: ECON 101H, 102H.

ECON 400H – 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: ECON 200H, ECON – ADMN 225H, 220H (or equivalents).

ECON 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. 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.

ECON 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: ECON – ADMN 220H, ECON – ADMN 225H (or equivalents), ECON 200H, ECON 201H. Excludes ECON 402H and ECON 403H.

ECON 405H – 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: ECON 201H, ECON – ADMN 225H, ECON – ADMN 220H (or equivalents).

ECON 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: ECON 320H or permission of the instructor.

ECON 425H – Advanced topics in mathematical economics (Sc)

A continuation of ECON 325H. Advanced mathematical techniques of direct relevance and operational significance to economics. Topics include classical and non-linear programming, comparative static analysis, differential equations, dynamic optimization, optimal control theory, phase diagrams, dynamic stability/instability in systems, economics of risk and uncertainty. Prerequisite: ECON 325H or permission of the instructor.

ECON 495H – Special topics in macroeconomics (Sc)

Research seminar on monetary policy, fiscal policy and macroeconomic performance. Students write and present empirical research on aspects of recent Canadian macroeconomic experience and policy. Students will discuss recent macroeconomic models, select research topics, formulate proposals, and present research results in seminars. Prerequisite: ECON 201H, ECON – ADMN 225H, ECON – ADMN 220H (or equivalents).

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 (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: education@trentu.ca

Fax: (705) 748-1144

Web: www.trentu.ca/education/consecutive

Professor and Director of the School of Education and Professional Learning

D. P. Berrill, B.A. (Northwestern), M.A. (Toronto), Ontario Teaching Certificate (Peterborough Teachers College), Ph.D. (East Anglia)

Assistant Professors

C. Bruce, B.A., B.Ed. (York), M.A., Ph.D. (Toronto); **M. Davidson**, B.A. (York), B.Ed. (Queen's), M.Ed. (McGill), Ph.D. (Concordia); **L. Iannacci**, B.A., B.Ed. (York), M.Ed., Ph.D. (Western); **M. Ladky**, B.A. (Denison), M.A. (Dublin), Dip Ed. (McGill), Ed.D (Toronto); **K. Pendleton Jimenez**, B.A. (UC Berkeley), M.F.A. (San Diego State), Ph.D. (York); **W. Smale**, H.B.P.E., B.Ed., M.Ed., B.Sc. (Lakehead), Ph.D. (Alberta)

Lecturers

C. Cho, B.F.A., B.Ed. (York), M.Ed. (York); **S. Davidson**, B.Sc. (Trent), B.Ed. (Western), M.A. (Michigan); **B. Graham**, B.A., (Trent); **K. G. Hurlington**, B.Sc. (Trent), GIS-AS, B.Ed. (Queen's), M.E.S. (Waterloo); **D. McDonald**, B.Sc. (Trent), B.Ed. (Queen's), M.Ed. (Ottawa); **C. McNamara**, B.A. (Carleton), B.Ed. (Queen's), M.Ed. (Ottawa); **P. Wagar**, B.A. (Trent), M.Ed. (Toronto); **F. White**, B.Sc. (Guelph), B.Ed. (Queen's), M.Ed. (Toronto); **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 and developing professional identity 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 28 to May 18); 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

All candidates will prepare a Professional Teaching Portfolio based on expected teaching competencies, aligned with the Ontario College of Teachers' *Standards of Practice for the*

Teaching Profession and the *Ethical Standards for the Teaching Profession*. The Professional Teaching 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 and theory to practice, the portfolios will include the candidates' reflections on their own teaching beliefs and practices as well as on-going professional learning plans.

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

Successful completion of the practicum is a requirement for successful completion of the program. 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. For further information about the Ontario College of Teachers, please see www.oct.ca.

Notes

- "J" signifies 0.25 credits; "H" signifies 0.5 credits
- All program options require 5 credits including 0.5 practicum credit.
- All curriculum courses incorporate 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

– EDUC 4121H, 4133H, 4313H, 4341H, 4353H*, 4561H, 4562H, 4571H, 4573H, 4574H

2. Primary/Junior streams in the Catholic school system

– EDUC 4133H, 4313H, 4341H, 4342H, 4353H*, 4561H, 4562H, 4571H, 4573H, 4574H

3. Intermediate/Senior streams in the public school

– EDUC 4221H, 4223H, 4233H, 4313H, 4341H, 4353H*
– 2 credits from the Intermediate/Senior curriculum courses

4. Intermediate/Senior streams in the Catholic school system

– EDUC 4223H, 4233H, 4313H, 4341H, 4342H, 4353H*
– 2 credits from the Intermediate/Senior curriculum courses

* In the part-time program 4353H will be replaced by EDUC 4351J in Year 1 and EDUC 4352J in Year 2.

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

FOUNDATIONAL COURSES

EDUC 4121H – Creating a positive learning environment (Primary/Junior)

This course will examine current theories of instructional design and classroom management as they interact to create a positive learning environment in the Primary/Junior context. Students will examine and critically assess contemporary models of design and management to develop personal philosophies related to their own teaching.

EDUC 4133H – Supporting literacy and learners with special needs (Primary/Junior)

Introduction to research, theory and best practices in special needs and reading instruction for learners with special needs at the Primary and Junior levels. Inclusion and individualized instruction are explored with emphasis on legal responsibilities, program modification, and classroom accommodation. This course is accompanied by a practicum placement.

EDUC 4221H – 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.

EDUC 4223H – Issues in planning, assessment and evaluation (Intermediate/Senior)

Through the application of current research and theoretical foundations, this course will explore contemporary issues in planning, assessment and evaluation and their application to intermediate and senior classroom teaching practice. Selection, design, and use of assessment tasks, tools, and data will be addressed and critiqued, with opportunities for connections to all curriculum areas

EDUC 4233H – Supporting literacy and learners with special needs (Intermediate/Senior)

Introduction to research, theory and best practices in special needs and reading instruction for learners with special needs at the Intermediate and Senior levels. Inclusion and individualized instruction are explored with emphasis on legal responsibilities, program modification, and classroom accommodation. This course is accompanied by a practicum placement.

EDUC 4313H – Sociocultural perspectives on human development and learning (Primary/Junior & Intermediate/ Senior)

This course will offer a critical approach to the understanding of sociocultural and cognitive theories of human development. We will examine and critique how these theories apply to multiple contexts of education, including systemic processes, classroom practices, and embodied teaching and learning

EDUC 4341H – Educational law, ethics 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.

EDUC 4342H – 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.

EDUC 4353H – Practicum: Building professional identities and maintaining personal integrity (Primary/Junior and Intermediate/Senior)

Teacher candidates will apply research and theoretical knowledge in building their professional teaching identities through reflection on teaching experiences in classroom settings at the grade levels for which they are seeking professional teaching certification. For all candidates, practicum placements will include a total of 86 days in three different contexts: an individualized context with two pupils deemed at risk in reading; 61 days of classroom teaching; and an alternative setting practicum, proposed by the candidate.

EDUC 4351J – Practicum: Building professional identities. Part time program year 1 (Primary/Junior and Intermediate/Senior)

Teacher candidates will apply research and theoretical knowledge in beginning to build their professional teaching identities through reflection on teaching experiences in classroom settings at the grade levels for which they are seeking professional teaching certification. Practicum placements will include a total of 86 days over two years in a minimum of three contexts: tutoring pupils deemed at risk in reading; 61 days of classroom teaching; an alternative setting practicum.

EDUC 4352J – Practicum: Re-negotiating self through theory and practice. Part time program year 2 (Primary/Junior and Intermediate/Senior)

Teacher candidates will apply research and theoretical knowledge in theorizing a re-negotiation of their teaching identities by exploring ethical and pedagogic dilemmas and tensions in teaching. Practicum placements will include a total of 86 days over two years in a minimum of three contexts: tutoring pupils deemed 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**EDUC 4561H – Mathematics (Primary/Junior)**

This course in teaching Primary/Junior Mathematics for prospective teachers focusses 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.

EDUC 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.

EDUC 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 and assessing a balanced literacy program in Primary and Junior classrooms.

EDUC 4573H – Integrated arts in the elementary classroom (Primary/Junior)

In this course students will learn how to integrate the arts into the elementary classroom. Drawing on current theory and practice in arts education, candidates will focus on how children learn, create and express ideas through the arts and consider ways that the arts can enrich learning across subject areas.

EDUC 4574H – Movement: Physical education, dance and drama in the elementary classroom (Primary/Junior)

This course will offer an approach to movement education incorporating theories of kinesthetic learning in physical education, dance and drama. Students will engage in a variety of collaborative approaches with an emphasis on active learning through bodily engagement, creative problem solving and role-playing.

EDUC 4661 – Biology (Intermediate/Senior)

This course examines contemporary learning theory pertaining to Biology education. Students will explore the philosophical basis of appropriate teaching and assessment methodologies to facilitate pupil learning and understanding. The unifying principles of the life sciences will form a framework for the course.

EDUC 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.

EDUC 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 online learning will be linked with theoretical models of assessment and evaluation to develop dynamic instructional programs.

EDUC 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.

EDUC 4665 – Physics (Intermediate/Senior)

Students will explore contemporary research and theoretical foundations of Physics instruction, focussing 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.

EDUC 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.

EDUC 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.

EDUC 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 and assessment approaches for creating effective lessons and teaching units.

EDUC 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.

EDUC 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 student learning in the subject area.

EDUC 4682 – Natives 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

Sharon Carew, B.A. (Trent), M.Ed. (Toronto)

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 2.25 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, Indigenous 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 March. See our website for exact date and downloadable application form.
- Students transferring from a community college or another university who wish to apply for Concurrent Education must have no more than 3 transfer credits to be eligible for admission.

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 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 tuition fees for their Education courses. These are not covered by Trent University Arts and Science tuition fees.
- Candidates are required to pay a nominal learning materials fee in Queen's Education courses.

Program format and required courses for students entering in the Fall of 2006
(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 of placement.

At the end of Year 1, students must choose the Primary/Junior or Intermediate/Senior program.

Primary/Junior Program

Year 2 at Trent (0.5 credit)

- up to 5 credits towards a B.A. or B.Sc.
- Curriculum Selection (0.25)
- Experiences in Schools (Primary/Junior) II (0.25 credit) which is the equivalent of three full weeks of placement.

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 of placement.

Year 4 at Trent

- up to 5 credits towards a B.A. or B.Sc.
- no EDUC courses or placement required

Final Year at Queen's (PJ) (5 credits) (in Kingston)

- All remaining Curriculum, Foundations, Education Studies, Focus and/or Professional Studies courses.
- Practicum Course which is the equivalent of up to 16 weeks of placement

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 of placement.

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 of placement.

Year 4 at Trent

- up to 5 credits towards a B.A. or B.Sc.
- no EDUC courses or placement required

Final Year at Queen's (IS) (4.75 credits) (in Kingston)

- All remaining Curriculum, Foundations, Education Studies, Focus and/or Professional Studies courses.
- Practicum Course which is the equivalent of up to 16 weeks of placement

For further details please visit the Queen's University, Faculty of Education website at educ.queensu.ca. The Queen's Faculty of Education Calendar is the authoritative version. The Calendar is available on the web at www.queensu.ca/calendars/education.

English Literature

Telephone: (705) 748-1011 ext. 1733

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E-mail: english@trentu.ca

Web: www.trentu.ca/english

Associate Professor and Chair of the Department

E. A. Popham, B.A., M.A. (Manitoba), Ph.D. (Queen's)

Professors

L. W. Conolly, B.A. (Wales), M.A. (McMaster), Ph.D. (Wales), F.R.S.C. (*on leave Fall term*);
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) (*on leave 2006–2007*); **S. L. Keefer**, B.A., M.A., Ph.D. (Toronto); **O. S. Mitchell**, B.A., M.A. (Alberta), Ph.D. (London); **J. E. Neufeld**, B.A. (Toronto), M.A., Ph.D. (Chicago);
M. A. Peterman, A.B. (Princeton), M.A., Ph.D. (Toronto); **Z. H. Pollock**, B.A. (Manitoba), Ph.D. (London); **F. B. Tromly**, B.A. (Grinnell), M.A., Ph.D. (Chicago) (*on leave Winter term*)

Associate Professors

S. J. Bailey, B.A. (Queen's), M.A., Ph.D. (Toronto); **S. W. Brown**, B.A., M.A. (Windsor), B.A., Ph.D. (Queen's), F.S.A. (Scot.); **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); **L. J. Clark**, B.A., M.A. (Toronto), Ph.D. (Virginia); **M. C. Eddy**, B.A., M.A. (Western Ontario), Ph.D. (Toronto) (*on leave 2006–2007*); **D. K. Glassco**, B.A. (Queen's), M.A. (Melbourne), Ph.D. (London) (*on leave Fall term*)

Assistant Professors

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)

Adjunct Faculty

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)

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 led by experienced and dedicated teachers.

Revision of Program

The English Department has undertaken a major revision of its program. The new regulations will apply to all students declaring their major at the end of the 2005–2006 academic year. Students already in the program will have the option of completing their degree under the new regulations or the old (see below).

Notes

- C- (60%) or higher in ENGL 1000 is a prerequisite for all upper-year English courses.
- Under the old regulations, 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. Under the new regulations this equivalence no longer applies. Students completing their degree under the new regulations should ensure that they have satisfied the requirement for courses beyond the 200-level.
- Under the old regulations, 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 English majors may be allowed. Under the new regulations, 4000-series English courses are open to English majors and joint-majors in the Honours program who have successfully completed 4 credits in English and who have a cumulative average of B- (70%) in all courses taken (or permission of the Department).

- A cross-listed course may not simultaneously satisfy the requirements of the two 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 (NEW REGULATIONS)

- See p. 22 for requirements which apply to all undergraduate degree programs.
- The English program consists of four series of courses:
 1. ENGL 1000, an introductory course to the discipline, required of all English majors.
 2. 2000-series courses which provide a basis for further study in English. These consist of ENGL 2000 (Practical criticism and theory), 2 historically based courses – ENGL 2100 (Medieval and Renaissance) and 2200 (Restoration to Romanticism) – and three national stream courses – ENGL 2300 (American), 2400 (World) and 2500 (Canadian).
 3. 3000-series courses, entitled "Studies in...", which pursue more sharply focussed studies than the 2000-series courses.
 4. 4000-series courses, entitled "Research Seminars in...", which have a strong research component. 4000-series courses are not required for the Honours degree.
- The emphasis in ENGL 2100 – 2500 is on extensive reading. They have more contact hours than other courses in the program, meet in larger groups, and require less writing.
- All 1000-, 3000-, and 4000-series courses are taught in a combination of lectures and small seminars
- English 1000 must be taken in the first year of the program.
- English 2000 must be taken in the first or second year of the program.
- All other 2000-series courses and all 3000-series courses may be taken in the second, third or fourth year of the program.
- 4000-series courses may be taken by English majors and joint-majors in the Honours program who have successfully completed 4 credits in English and who have a cumulative average of B- (70%) in all courses taken (or permission of the Department).
- ENGL 2000 is a prerequisite for all 4000-series courses. Some other 2000-series courses are prerequisites for some 3000- or 4000-series courses. See individual course descriptions for prerequisites.
- ENGL 1000 and all 2000-series courses are offered annually. All 3000-series courses are offered on a two- or three-year rotation. The frequency of offering of 4000-series courses depends on staffing resources. The Department publishes a 3-year plan on its Web site to help students plan their programs.
- Up to one credit in the following courses may be substituted for a credit in English: AHCL 150, 250, 350; CUST 205, 222, 225, 270, 322, 370, 4954; GRMN 220, 221H, 222H; GRMN – WMST 314H; PHIL 314H; HSST 326.
- It is recommended that students considering graduate studies in English complete an upper level course in a second language.
- It is recommended that students considering graduate studies in English complete at least one theory course.
- 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 term, when the details of the next year's 4000-series course offerings and of application procedures are outlined. All inquiries should be directed to the Honours advisor: Professor Z. Pollock, Catharine Parr Traill College (e-mail: zpollock@trentu.ca).

The single-major Honours program. At least 10 credits in English, including:

- ENGL 1000, 2000 (formerly 100, 205), 2100 and 2200
- 1 of ENGL 2300, 2400 or 2500
- 5 additional credits

The joint-major Honours program. At least 8 credits in English, including:

- ENGL 1000, 2000 (formerly 100, 205), 2100 and 2200
- 1 of ENGL 2300, 2400 or 2500
- 3 additional credits

The single-major General program. At least 6 credits in English, including:

- ENGL 1000 and 2000 (formerly 100 and 205)
- 1 of ENGL 2100 or 2200
- 1 of ENGL 2300, 2400 or 2500
- 2 additional credits

The joint-major General program. At least 5 credits in English, including:

- ENGL 1000 and 2000 (formerly 100 and 205)
- 1 of ENGL 2100 or 2200
- 1 of ENGL 2300, 2400 or 2500
- 1 additional credit

BACHELOR OF ARTS PROGRAM IN ENGLISH (OLD REGULATIONS)

- See p. 22 for requirements which apply to all undergraduate degree programs.
- 2000- and 3000-series courses may be taken in the second, third or fourth year of the program, with the exception of ENGL 2000, which must be taken in the second year. In some cases 2000-series course are prerequisites for 3000 or 4000-series courses.
- Under the old regulation, the last five credits in the Honours program should include at least three 4000-series credits in English taken at Trent in the single-major program, and at least two in the joint-major program. **THIS NO LONGER APPLIES:** Students may choose to graduate without having completed any 4000-series courses, but if they seek admission to 4000-series courses they must have successfully completed 4 credits in English and have a cumulative average of B-(70%) in all courses taken (or permission of the Department). Students completing their degree under the old regulations are still required to complete the category requirements listed below.
- With the exception of ENGL 1000 and 2000, 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 the list below. Courses which have not changed are listed first: crosslisted courses are preceded by their program designation; English courses are followed by their number under the new system, in brackets. Courses which are no longer offered are listed next, followed by new courses.
- Students may choose to fulfill category requirements with new courses as well as with any courses previously offered. Among the new courses ENGL 2100, 2200, 2300, 2400 and 2500 each satisfies more than one category requirement simultaneously so they are each listed more than once in the table.

A 800 to 1500	B 1500 to 1642	C 1642 to 1790	D 1790 to 1900	E 1900 to Present	F Genres, etc.
UNCHANGED COURSES					
230 [3100]	220 [3150]	201 [3200]	212H [3251H]	CUST 229	275 [3850]
331H [3125H]	250H [3153H]	251H [3203H]	213H [3253H]	CAST 266/266H	280H [3703H]
332 [3121H]	420	300 [3205H]	321	CAST 267H	305 [3600]
	[4150/4151H]		[3400/3401H]		
333H [3123H]	433	302H [3207H]	435	340	306H [3603H]
	[4152/4153H]		[4250/4251H]	[3802/3803H]	
431		434	436	350	310
[4100/4101H]		[4200/4201H]	[4400/4401H]	[3804/3805H]	[3700/3701H]
432				CAST 352H	316H [3455H]
[4120/4121H]					
				440	317H [3451H]
				[4802/4803H]	
				450	CUST 329
				[4804/4805H]	
				460	CUST 355
				[4806/4807H]	
				465	360H [3481H]
				[4500/4501H]	
				CAST 466	361H [3483H]
				475	370 [3808]
				[4300/4301H]	
					375
					[4850/4851H]
					385 [3810]
					CUST 425
					470
					[4800/4801H]
COURSES NO LONGER OFFERED					
	251		231	265	
	253H		232	345	
	254H		320	353H	
				365H	
				371	
NEW COURSES					
2100	2100	2200	2200	2300	2400
3103H	3155H		2300	2400	3302/3303H
			2400	2500	3304/3305H
			2500	3806	3453H
			3300/3301H	4450/4451H	3501H
			3402/3403H		3503H
					3505H
					3705H
					CAST 397H
					4600/4601H

- Up to one credit in the following courses may be substituted for a credit in English: AHCL 150, 250, 350; CUST 205, 222, 225, 270, 322, 370, 4954; GRMN 220, 221H, 222H; GRMN – WMST 314H; PHIL 316; HSST 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.
- It is recommended that students considering graduate studies in English complete at least one theory course.
- Information meetings for students intending to major in English are held during the Winter term, 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 term, when the details of the next year's 4000-series course offerings and of application procedures are outlined. All inquiries should be directed to the Honours advisor: Professor Z. Pollock, Catharine Parr Traill College (e-mail: zpollock@trentu.ca).

The single-major Honours program. At least 10 credits in English, including:

- ENGL 1000 and 2000 (formerly 100 and 205)
- 8 additional credits, including at least 0.5 credit in each of the six categories

The joint-major Honours program. At least 8 credits in English, including:

- ENGL 1000 and 2000 (formerly 100 and 205)
- 6 additional credits, including at least 0.5 credit in 5 different categories

The single-major General program. At least 6 credits in English, including:

- ENGL 1000 and 2000 (formerly 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:

- ENGL 1000 and 2000 (formerly 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, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

ENGL 1000 – Introduction to English literature

This course focusses on selected periods, issues, forms and movements from the broad spectrum of literature in English – British, American, Canadian and postcolonial. Excludes ENGL 100.

ENGL 2000 – Foundations in practical criticism and theory

An introduction to practical criticism and to the theoretical assumptions underlying a wide range approaches to literature. The course explores British, American, Canadian and postcolonial works, and draws on parallels between literary and non-literary language and between literature and the other arts. Emphasis will be placed on learning through writing. Excludes ENGL 205.

ENGL 2100 – Foundations in Medieval and Renaissance literature

This course provides an opportunity to become acquainted with English literature from the medieval period to the Renaissance. Special attention will be given to such themes as the romantic and heroic impulses, sacred and profane love, art and nature, nostalgia for the old and enthusiasm for the new. Prerequisite: C- (60%) or higher in ENGL 1000 (100).

ENGL 2200 – Foundations in Restoration to Romantic literature

This course explores the genres, aesthetics, philosophies, and politics of the Restoration to Romantic periods. Writers to be studied include: Milton, Congreve, Dryden, Behn, Defoe, Addison, Steele, Pope, Dryden, Swift, Gay, Johnson, Fielding, Sterne, Franklin, Burns, Burke, Rousseau, Blake, Wollstonecraft, Wordsworth, Coleridge, Austen, P.B. Shelley, Mary Shelley, Byron, and Keats. Prerequisite: C- (60%) or higher in ENGL 1000 (100).

ENGL – CUST 229 – Science fiction (see Cultural Studies)

ENGL 2300 – Foundations in American literature

An introduction to the dynamic trajectory of American literature in the nineteenth century and modernist period. The course explores the literature's ambivalent responses to a British tradition, its relationship to Indigenous and African-American oral forms, and popular cultural forms, and its engagement with distinctively American ideals and political climates. Prerequisite: C- (60%) or higher in ENGL 1000 (100).

ENGL 2400 – Foundations in World literature: British to postcolonial

This course follows the development of English literature through the 19th and 20th centuries, when through the expansion of the British Empire, English became the first "world language," and literature in English became a "world literature," including Scottish, Irish, Nigerian, Jamaican, Indian, Australian and a host of other vibrant literatures. Prerequisite: C- (60%) or higher in ENGL 1000 (100).

ENGL – CAST 2500 – Foundations in Canadian literature

This course approaches English Canadian literature (poetry, prose and drama) from the nineteenth to the twenty-first century. It examines the literature in its historical, cultural and political contexts, taking into account issues such as gender, race, class and the environment. Prerequisite: C- (60%) or higher in ENGL 1000 (100).

ENGL – CAST – WMST 266 – Canadian women's writing (see Canadian Studies)**ENGL 3100 – Studies in 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. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Strongly recommended: a 100-series course in French, German, Greek, Latin or Spanish. Excludes ENGL 230.

ENGL 3103H – Studies in Old English

Language principles through oral, auditory and visual learning, enabling the student to read a selection of basic Anglo-Saxon prose and verse texts. Prerequisite: C- (60%) or higher in ENGL 1000 (100); or at least 0.5 credits in the Medieval period (A category). Strongly recommended: a 100-series course in French, German, Greek, Latin or Spanish.

ENGL 3121H – Studies in medieval romance

This course will examine medieval romance through the lens of several overlapping sub-genres: penitential, family, and Arthurian romance. We will be attentive to how romance maps the stresses and changes in medieval culture – particularly in England – and how it becomes a vehicle for exploring political, social and ideological change. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 332.

ENGL 3123H – Studies in 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. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 333H.

ENGL 3125H – Studies in Chaucer's Canterbury Tales

This course explores Chaucer's most famous work, *The Canterbury Tales*. Here Chaucer's world of competing voices is fully realized – violent and humorous, idealistic and corrupt, intensely religious and yet plagued by doubt. The fictional frame for this surprisingly modern approach to storytelling is an old and time-honoured activity: the pilgrimage. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 331H.

ENGL 3150 – 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. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 220.

ENGL 3153H – Studies in Renaissance drama

This course explores 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. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 250H.

ENGL 3155H – Studies in the Renaissance lyric

Lyric poetry, along with music and drama, was one of the greatest artistic expressions of the English Renaissance. This course will focus on the conflicting tendencies towards musical beauty and psychological drama in such poets as Wyatt, Surrey, Sidney, Spenser, Shakespeare, Jonson, Donne, Herbert, the later Metaphysicals and the Cavaliers. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 251, 253H, 254H.

ENGL 3200 – Studies in 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. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 201.

ENGL 3203H – Studies in 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. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 251H.

ENGL 3205H – Studies in the 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. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 300.

ENGL 3207H – Studies in the Age of Sensibility

Studies in the literature of “sensitivity” 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. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 302H.

ENGL 3251H – Studies in the 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. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 212H.

ENGL 3253H – Studies in the 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. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 213H.

ENGL – CUST 329 – Utopia (future fiction) (see Cultural Studies)**ENGL 3300/3301H – Studies in American literature: literary periods and movements**

A study of literary periods and movements in American literature with an emphasis on their responsive and innovative nature. The focus may be on such periods as the American Renaissance, the Gilded Age, Modern American Fiction, Postmodern literature, or on the transitions between and contrasts among multiple historical periods. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 231, 232.

ENGL 3302/3303H – Studies in American literature: identities

An examination and questioning of the place of cultural identity in American literature through the exploration of characteristics, motifs, genres, and themes in the writings of particular cultural groups. Topics may include African-American Literature, Asian-American Literature, Hispanic-American Literature, the Southern American Renaissance, among others. Prerequisite: C- (60%) or higher in ENGL 1000 (100).

ENGL 3304/3305H – Studies in American literature: genres

This course studies a range of works in a particular genre of American literature, such as Slave Narratives (nineteenth century and contemporary re-writings); Postmodern Poetry; Modern American Drama; and Contemporary American Drama. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 371.

ENGL – CUST 3400/3401H – Studies in Victorian 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. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL-CUST 321.

ENGL 3402/3403H – Studies in Victorian literary movements and genres

Studies in literary movements and genres of Victorian literature. Some of the movements and genres to be discussed include Pre-Raphaelitism, fin de siècle writings, sensation fiction, the New Woman novel, poetry. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 320.

ENGL 3451H – Studies in African literature

A study of postcolonial Anglophone literature from Africa. Writers to be studied may include Wole Soyinka, Chinua Achebe, Buchi Emecheta (Nigeria), Ayi Kwei Armah (Ghana), Nadine Gordimer, J.M. Coetzee, Bessie Head (South Africa) Ngugi wa Thiong'o (Kenya) and Dambudzo Marachera (Zimbabwe). Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 317H.

ENGL 3453H – Studies in West Indian literature

A study of postcolonial Anglophone Caribbean literature. Writers to be studied may include Bob Marley, Lorna Goodison, Erna Brodber, Louise Bennett (Jamaica) V.S. Naipaul, Earl Lovelace, Samuel Selvon (Trinidad), Wilson Harris (Guyana), Kamau Brathwaite (Barbados) and Derek Walcott (St. Lucia). Prerequisite: C- (60%) or higher in ENGL 1000 (100).

ENGL 3455H – Studies in South Asian literature

A study of postcolonial Anglophone literature from India, Pakistan and Sri Lanka. Writers to be studied may include Raja Rao, Salman Rushdie, Arundhati Roy, Anita Desai, R.K. Narayan (India), Sara Suleri, Khushwant Singh (Pakistan), Shyam Selvadurai, Michael Ondaatje (Sri Lanka). Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 316H.

ENGL – CAST – NAST 3481H – Studies in Indigenous fiction

The course considers the expectations and functions of narrative, and examines the ways in which the fictions of Indigenous 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. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL – NAST – CAST 360H.

ENGL – CAST – NAST 3483H – Studies in Indigenous poetry

The course considers the range of contemporary poetry by Indigenous 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. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL – NAST – CAST 361H.

ENGL – CAST – 3501H – Studies in Canadian literature: Landscapes

This course examines Canadian Literature in relation to the space where it is written. Topics will include the local (regionalism, urban and rural spaces), national, and global (cosmopolitanism and postnationalism). We will read works from the nineteenth century to the present. Prerequisite: C- (60%) or higher in ENGL 1000.

ENGL – CAST – 3503H – Studies in Canadian literature: Genre

This course studies a range of works in a particular genre of Canadian writing. Some of the genres to be discussed include: poetry, drama, fiction or short-fiction. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL – CAST 265, 353H, 365H.

ENGL – CAST – 3505H – Studies in Canadian literature: Communities

This course examines imagined communities in Canadian literature, in comparison to communities as they have developed in Canada's history and as they may have existed or been imagined in the author's place of origin. It will draw on a selection of works from the nineteenth century to the present. Prerequisite: C- (60%) or higher in ENGL 1000 (100).

ENGL – CAST 352H – Literary landscapes of Montreal (see Canadian Studies)**ENGL – CUST 355 – Sexuality and textuality** (see Cultural Studies)**ENGL 3600/3601H – Studies in 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. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 305, 325.

ENGL 3603H – Studies in theories of feminism, gender and sexuality

A thematically based course providing an introduction to the nature and methods of feminist critical theory, with a special emphasis on the ways in which theories of gender and sexuality affect the practice of literary theory and criticism. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 306H.

ENGL 3700/3701H – Studies in gender and literature

A study of relations between gender and writing, with an emphasis on women authors and a female literary tradition. Selected works include a range of genres and periods in literature in English. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL-WMST 310.

ENGL 3703H – Studies in literature and social justice

This course studies a range of works from different periods and genres that raise moral questions and ethical dilemmas concerning issues of social justice involving race, ethnicity, class, gender, age and other variables. It considers literature's power to evoke the plight of the socially disadvantaged, and the implications for social change. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 280H.

ENGL 3705H – Studies in literature and the environment

An examination of selected works through a focus on the natural environment including non-human forms of life. The course studies examples of nature and environmental writing, but also brings ecocritical perspectives to a wide range of texts through discussions of the wilderness, gardens, waste, nature and culture, and other topics. Prerequisite: C- (60%) or higher in ENGL 1000 (100).

ENGL 3802/3803H – Studies in 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. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 340.

ENGL 3804/3805H – Studies in 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, Gems, Williams, Miller and Albee. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 350.

ENGL 3806/3807H – Studies in modern fiction

This course examines the development of modern fiction from the flourishing of experimental Modernism in the 1920s to contemporary voices and trends. The texts will be interpreted from a social and historical perspective and a formal or aesthetic perspective. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 345.

ENGL 3808 – 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. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 370.

ENGL 3810 – Studies in children's literature

This course studies children's literature (British, American and Canadian) from the eighteenth century to the present, addressing such topics as the transition from oral to literate culture, folk and fairy tales, the 18th-century popular press, the late-19th-century cult of the child, illustration, the "Golden Age," and cultural contexts. Prerequisite: C- (60%) or higher in ENGL 1000 (100). Excludes ENGL 385.

ENGL 3850 – Studies in creative writing

The course provides students with practical knowledge of different genres of literature and extends their creative writing skills and their ability to respond to literary works. The genres will include four of fiction, short fiction, poetry, drama, children's literature, and creative non-fiction. Students seeking admission will submit a portfolio of 8 – 10 pages of written work to the department by May 1 and will be notified if they have been accepted into the course by May 31. Prerequisite: C- (60%) or higher in ENGL 1000 (100).

ENGL – CAST – NAST – WMST 397H – Writing women's stories – Native women's work
(see Canadian Studies)**ENGL 402xD – 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. Prerequisite: 4 credits in English, including ENGL 2000 (205); a cumulative average of B- (70%) or higher in all courses taken.

ENGL 4100/4101H – Research seminar in Old English language and literature

Prerequisite: 4 credits in English including ENGL 2000 (205) and ENGL 3100 (230) or 3101H; a cumulative average of B- (70%) or higher in all courses taken. Excludes ENGL 431.

ENGL 4120/4121H – Research seminar in Middle English language and literature

Topic for 2006–2007: Women in Middle English Literature. This course will explore the representation of women in medieval texts written by male authors and, in one case, by a real historical woman (Margery Kempe). Texts studied will include lyric poetry, romance and drama, and at least one of Chaucer's long poems. Prerequisite: 4 credits in English including ENGL 2000 (205) and at least 0.5 credits in the Medieval period (A category); a cumulative average of B- (70%) or higher in all courses taken. Excludes ENGL 432.

ENGL 4150/4151H – Research seminar in Shakespeare

Topic for 2006–2007: Shakespeare's Art of Revisitation. Concentrates on Shakespeare's habit of returning to and drastically revising situations he had depicted in earlier plays. Works to be studied include pairings from the Comedies, Histories, Tragedies, and Sonnets. Prerequisite: 4 credits in English, including ENGL 2000 (205) and 3150 (220); a cumulative average of B- (70%) or higher in all courses taken. Excludes ENGL 420.

ENGL 4152/4153H – Research seminar in Renaissance literature

Topic for 2006–2007: Masterless Men, or Stuck in the Nineties Again. The "masterless men" – writers such as Marlowe, Nashe, Greene, Dekker, Marston, and Shakespeare – came of age in the 1590s, only to discover that their literary innovations did not always earn them respect or a means of survival. They responded with angry and challenging works, sometimes tragic and often bitterly funny. Prerequisite: 4 credits in English, including ENGL 2000 (205) and at least 0.5 credits in the Renaissance period (B category); a cumulative average of B- (70%) or higher in all courses taken. Excludes ENGL 433.

ENGL 4200/4201H – Research seminar in Restoration and 18th century literature

Topic for 2006–2007: Documentary Realism in the Eighteenth Century. This course examines the rhetoric of realism in such authors as Aphra Behn, Daniel Defoe, John Gay, Benjamin Franklin, Henry Fielding, and Jane Austen, with emphasis on the illustrations of William Hogarth. We will also examine twentieth century documentary films by the likes of Errol Morris, Albert Maysles, and Michael Moore. Prerequisite: 4 credits in English, including ENGL 2000 (205); a cumulative average of B- (70%) or higher in all courses taken. Excludes ENGL 434.

ENGL – CUST 425 – Literary theory and critical theory (see Cultural Studies)**ENGL 4250/4251H – Research seminar in the Romantics**

Topic for 2006–2007: Jane Austen. The course explores Austen's fiction within certain literary and philosophical contexts including romantic, sentimental, and Gothic literary historical traditions as well as a more ahistorical context of moral philosophy. Course may include readings from Shaftesbury, Rousseau, Wollstonecraft, Edmund Burke, and Aristotle, as well as fiction by Austen's contemporaries. Prerequisite: 4 credits in English, including ENGL 2000 (205); a cumulative average of B- (70%) or higher in all courses taken. Excludes ENGL 435.

ENGL 4300/4301H – Research seminar in American literature

Prerequisite: 4 credits in English, including ENGL 2000 (205); a cumulative average of B- (70%) or higher in all courses taken. Excludes ENGL 475.

ENGL 4400/4401H – Research seminar in Victorian literature

Topic for 2006–2007: Blinded by Science?: Victorian Literature and Scientific Discovery. The course focusses on scientific discoveries in biology, psychology and medicine, and their representation in Victorian poetry, fiction and life-writing. Authors to be studied include Darwin, Kingsley, Gosse, Tennyson, Browning, George Eliot, Dickens, H. G. Wells. Prerequisite: 4 credits in English, including ENGL 2000 (205); a cumulative average of B- (70%) or higher in all courses taken. Excludes ENGL 436.

ENGL 4450/4501H – Research seminar in postcolonial literature

(Oshawa) Topic for 2006–2007: To be announced. Prerequisite: 4 credits in English, including ENGL 2000 (205); a cumulative average of B- (70%) or higher in all courses taken.

(Peterborough) Topic for 2006–2007: Counter-realism in Postcolonial Literature. The course will consider the fantastic, the absurd, the carnivalesque and the magical-realistic in the works of postcolonial writers from South Asia, Africa, the Caribbean and Latin America. Authors discussed will include Salman Rushdie (India), Ben Okri (Nigeria), Derek Walcott (St. Lucia) and Gabriel García Márquez (Colombia). Prerequisite: 4 credits in English, including ENGL 2000 (205); a cumulative average of B- (70%) or higher in all courses taken.

ENGL – CAST 4500/4501H – Research seminar in Canadian literature

(Oshawa) Topic for 2006–2007: Depictions of Childhood in Canadian Fiction. This course examines depictions of childhood in Canadian fiction from the mid-twentieth century to the present. Gender, region and the environment will be the focus of our discussions. Writers to be studied include Mitchell, Buckler, Stegner, Roy, Findley, Fraser, Itani, MacDonald, Kogawa, Highway, and Alexis. Prerequisite: 4 credits in English, including ENGL 2000 (205); a cumulative average of B- (70%) or higher in all courses taken. Excludes ENGL – CAST 465.

(Peterborough) Topic for 2006–2007: The literature of Ontario. The course studies the evolution of literary expression in Ontario with attention to landscape and a sense of place. Part of the course will look closely at several books by Atwood, Davies or Munro. Other writers to be considered include Moodie, Crawford, Lampman, Leacock, Duncan, Ondaatje, Urquhart, Findley, and Alexis. Prerequisite: 4 credits in English, including ENGL 2000 (205); a cumulative average of B- (70%) or higher in all courses taken; ENGL – CAST 265 or 266 or 365H or permission of the instructor. Excludes ENGL – CAST 465.

ENGL 4600/4601H – Research seminar in critical approaches to literature

Prerequisite: 4 credits in English, including ENGL 2000 (205); a cumulative average of B- (70%) or higher in all courses taken.

ENGL – CAST 466 – Representations of the Other in contemporary Canadian writing (see Canadian Studies)

ENGL 4800/4801H – Research seminar in genre

Topic for 2006–2007: George Herbert and his descendants. This course is anchored in the seventeenth-century metaphysical and religious poetry of George Herbert. It will investigate Herbert's poetic techniques and the extent to which his influence can be seen in two twentieth-century poets: the Canadian Margaret Avison and the American Elizabeth Bishop. Prerequisite: 4 credits in English, including ENGL 2000 (205), and 0.5 credits in the Renaissance period (B category) or permission of the instructor; a cumulative average of B- (70%) or higher in all courses taken. Excludes ENGL 470.

ENGL 4802/4803H – Research seminar in modern poetry

Topic for 2006–2007: A study of twentieth-century modernism in the works of Robert Frost, Wallace Stevens, T.S. Eliot, and W.H. Auden, exploring how notions of poetic language were challenged in the first half of the twentieth century and how the American idiom influenced British poetry. The course will work on how to read poetry. Prerequisite: 4 credits in English, including ENGL 2000 (205); a cumulative average of B- (70%) or higher in all courses taken. Excludes ENGL 440.

ENGL 4804/4805H – Research seminar in modern drama

Prerequisite: 4 credits in English, including ENGL 2000 (205); a cumulative average of B- (70%) or higher in all courses taken. Excludes ENGL 450.

ENGL 4806/4807H – Research seminar in modern fiction

Prerequisite: 4 credits in English, including ENGL 2000 (205); a cumulative average of B- (70%) or higher in all courses taken. Excludes ENGL 460.

ENGL 4850/4851H – Advanced seminar in creative writing

A workshop course offering students a formal structure within which to pursue their interest in creative writing. Students will submit exercises and rough drafts of their own writing weekly. Students seeking admission will submit a portfolio to the instructor by May 1 and will be notified if they have been accepted into the course by May 31. Prerequisite: 4 credits in English, including ENGL 2000 (205); a cumulative average of B- (70%) or higher in all courses taken. Excludes ENGL 375.

ENGL 490x – Reading courses

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 ENGL 490x must secure the agreement of a faculty member to supervise the course and must apply for permission to take ENGL 490x through the Honours Advisor, prior to the commencement of the Fall session. See Honours brochure or website (www.trentu.ca/english) for details. Prerequisite: 4 credits in English, including ENGL 2000 (205); a cumulative average of B- (70%) or higher in all courses taken.

ENGL 495x – Special topic courses

Prerequisite: 4 credits in English, including ENGL 2000 (205); a cumulative average of B- (70%) or higher in all English courses taken.

ENGL – CUST 4953 – Special topic: The subject of the text (see Cultural Studies)

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Associate Professor and Chair of the Program

T. Whillans, B.A. (Guelph), M.Sc., Ph.D. (Toronto)

Professors

S. Bocking, B.Sc., M.A., Ph.D. (Toronto); **P. Dillon**, B.Sc., M.Sc., Ph.D. (Toronto); **R. D. Evans**, B.Sc. (Toronto), Ph.D. (McGill); **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 Winter term*); **R. C. Paehlke**, B.A. (Lehigh), M.A. (New School for Social Research), Ph.D. (British Columbia) (*on leave 2006–2007*); **D. Torgerson**, B.A. (California-Berkeley), M.E.S. (York), M.A., Ph.D. (Toronto)

Associate Professors

M. Havas, B.Sc., Ph.D. (Toronto); **H. Hintelmann**, B.Sc., Ph.D. (Hamburg); **R. Ponce-Hernandez**, B.Eng., M.Sc. (Chapingo), D.Phil. (Oxford) (*on leave Winter term*); **D. G. Holdsworth**, B.Sc. (Waterloo), M.Sc. (McMaster), Ph.D. (Western Ontario)

Assistant Professors

J. Aherne, B.A. (TCD), M.Appl.Sc (UCD), Grad. Dipl. (TCD), Ph.D. (UCD); **D. Wallschläger**, Ph.D. (Bremen) (*on leave Fall term*); **S. Watmough**, B.Sc. (Liverpool Polytechnic), Ph.D. (Liverpool John Moores)

Lecturer

D. Longboat, Roronhiakewen, (Haudenosaunee), B.A. (Trent), M.E.S. (York)

Demonstrator/Technicians

D. E. Howard, B.Sc. (McGill), M.Sc. (Trent); **R. K. Loney**, B.Sc. (Toronto)

Associated Faculty

Biology: **E. Nol**, **D. Lasenby**, **J. Schaefer**, **M. Xenopoulos**. *Canadian Studies*: **J. Wadland**.

Chemistry: **D. Ellis**, **I. Svishchev**. *Economics*: **B. Cater**. *Geography*: **J. M. Buttle**, **P. M. Lafleur**, **W. S. Tufts**, **S. Wurtele**. *Women's Studies*: **M. Hobbs**

Professors Emeriti

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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 may opt to write a test during introductory week, on which a grade of at least C- (60%) will exempt them from taking ERSC 100. This exemption 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 (ERSC); arts courses are designated Environmental & Resource Studies (ERST).
- 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 program secretary or course instructor if in doubt.
- 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. 108.
- For the Emphasis in Geographical Information Systems, see p. 222.
- For the Emphasis in Food & Agriculture, see p. 211.
- For the Specialization in Environmental Politics, Policy & Law, see p. 108.
- For the Specialization in Ecological Management, see p. 108.
- For the Specialization in Environmental Toxicology, see p. 108.
- ERSC/ERST 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- For the purpose of meeting the requirement for science credits, mathematics and science courses at the 200-level designated for Teacher Education (e.g., PHYS 209 and MATH 280) are considered the equivalent to courses at the 100-level.

The single-major Honours program. At least 10 credits in Environmental & Resource Science/Studies. The program must include:

- ERSC 100
- 9 additional credits in Environmental & Resource Science/Studies including ERST – CAST 250 or ERST 257H
- at least 5 of the credits in Environmental & Resource Science/Studies must be beyond the 200-level
- 1 science credit beyond the 100-level or 2 credits from the following: BIOL 102H, 103H, 261H, 262H, CHEM 100, COSC 102H, 104H, 151H, ECON 101H, 102H, MATH 280, PHYS 209, ERSC – BIOL 270, GEOG 104H, PHYS 100 or any Mathematics course at the 100-level

The joint-major Honours program. At least 7 credits in Environmental & Resource Science. The program must include:

- ERSC 100
- 6 additional credits in Environmental & Resource Science/Studies including ERST – CAST 250 or ERST 257H
- at least 3 of the credits in Environmental & Resource Science/Studies must be beyond the 200-level
- 1 science credit beyond the 100-level or 2 credits from the following: BIOL 102H, 103H, 261H, 262H, CHEM 100, COSC 102H, 104H, 151H, ECON 101H, 102H, MATH 280, PHYS 209, ERSC – BIOL 270, GEOG 104H, PHYS 100 or any Mathematics course at the 100-level

The single-major General program. At least 6 credits in Environmental & Resource Science/Studies. The program must include:

- ERSC 100
- 5 additional credits in Environmental & Resource Science/Studies including ERST – CAST 250 or ERST 257H
- at least 3 of the credits in Environmental & Resource Science/Studies must be beyond the 200-level
- 1 science credit beyond the 100-level or 2 credits from the following: BIOL 102H, 103H, 261H, 262H, CHEM 100, COSC 102H, 104H, 151H, ECON 101H, 102H, MATH 280, PHYS 209, ERSC – BIOL 270, GEOG 104H, PHYS 100 or any Mathematics course at the 100-level

The joint-major General program. At least 5 credits in Environmental & Resource Science/Studies. The program must include:

- ERSC 100
- 4 additional credits in Environmental & Resource Science/Studies including ERST – CAST 250 or ERST 257H
- at least 2 of the credits in Environmental & Resource Science/Studies must be beyond the 200-level

- 1 science credit beyond the 100-level or 2 credits from the following: BIOL 102H, 103H, 261H, 262H, CHEM 100, COSC 102H, 104H, 151H, ECON 101H, 102H, MATH 280, PHYS 209, ERSC – BIOL 270, GEOG 104H, PHYS 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- ERSC – BIOL 270 cannot be counted towards the B.Sc. degree.

The single-major Honours program. At least 10 credits in Environmental & Resource Science/Studies. The program must include:

- ERSC 100
- 1 credit from ERSC – BIOL 216H and 217H, ERSC – BIOL – ERSC 208H, ERSC – GEOG 209H, ERST – POST 210H or ERSC 230H
- 1 credit in Environmental & Resource Studies
- 7 additional credits in Environmental & Resource Science/Studies, including ERSC 220 or ERSC 221H and at least 5 beyond the 200-level
- CHEM 100 or equivalent
- 1 credit in Mathematics
- 14 science credits in the program as a whole

The joint-major Honours program. At least 7 credits in Environmental & Resource Science/Studies. The program must include:

- ERSC 100
- 1 credit from ERSC – BIOL 216H and 217H, ERSC – BIOL – ERSC 208H, ERSC – GEOG 209H, ERST – POST 210H or ERSC 230H
- 1 credit in Environmental & Resource Studies
- 4 additional credits in Environmental & Resource Science/Studies, including ERSC 220 or ERSC 221H and at least 3 beyond the 200-level
- CHEM 100 or equivalent
- 1 credit in Mathematics
- 14 science credits in the program as a whole

The single-major General program. At least 6 credits in Environmental & Resource Science/Studies. The program must include:

- ERSC 100
- 1 credit from ERSC – BIOL 216H and 217H, ERSC – GEOG – BIOL 208H, ERSC – GEOG 209H, ERST – POST 210H or ERSC 230H
- 1 credit in Environmental & Resource Studies
- 3 additional credits in Environmental & Resource Science/Studies, including ERSC 220 or ERSC 221H and at least 2 credits beyond the 200-level
- CHEM 100 or equivalent
- 1 credit in Mathematics
- 11 science credits in the program as a whole

The joint-major General program. At least 5 credits in Environmental & Resource Science/Studies. The program must include:

- ERSC 100
- 1 credit from ERSC – BIOL 216H and 217H, ERSC – GEOG – BIOL 208H, ERSC – GEOG 209H, ERST – POST 210H or ERSC 230H
- 1 credit in Environmental & Resource Studies
- 2 additional credits in Environmental & Resource Science/Studies, including ERSC 220 or ERSC 221H and at least 1 credit beyond the 200-level
- CHEM 100 or equivalent
- 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 Indigenous Studies as a Specialization in either program or as a Diploma. For further information see Indigenous Environmental Studies (p. **Error! Bookmark not defined.**).

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. 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 on the program website and the bulletin board outside the program office, which are intended to help students in planning their courses of study within the program.

Specialization in Environmental Politics, Policy & Law (B.A.)

- ERST – CAST 250, ERST – CAST – POST 310, ERST 325H, 425H
- 2 additional credits from the following list: ERST – POST 210H, ERST – GEOG 251H, ERST 307H, 309H, 311H, ERSC 316H, ERST – IDST – POST 360, ERST – POST – CAST 460H, ERST – IDST – POST 461H, and ERST – CAST 467H or ERSC/ERST 401 on an approved subject.

Specialization in Ecological Management (B.Sc.)

- ERSC – BIOL 216H and 217H, ERSC 351H, ERSC – BIOL 424H, ERSC 452H
- 1.5 additional credits from the following list: ERST – CAST 250, ERST 311H, ERSC 320, 335H, 336H, ERSC – GEOG 365H, ERSC – BIOL 439H, and ERSC – GEOG 464H or ERSC/ERST 401 on an approved subject.

Specialization in Environmental Toxicology (B.Sc.)

- ERSC – BIOL 216H and 217H, ERSC 220, 370, ERSC – BIOL – GEOG 407H (ERSC 221H may be used if 0.5 credit is added from the list following)
- 2 credits from the following list: ERSC – BIOL – GEOG 208H, ERSC – CHEM 342H, 343H, ERSC 345H, 355, 412H, ERSC – GEOG 445H, ERSC 452H or ERSC/ERST 401 on an approved subject.

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

ERSC 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.

ERST – CAST – GEOG – NAST 204 – Canada: The land (see Canadian Studies)

ERSC – GEOG – BIOL 208H – Natural science statistics (see Geography)

ERSC – GEOG 209H – Introduction to geographical information systems (see Geography)

ERST – POST 210H – 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: ERSC 100 or POST 100.

ERSC – NAST 215H – Environmental assessment techniques for Aboriginal communities
(see Indigenous Studies)

ERSC – BIOL 216H – Population ecology (see Biology)

ERSC – BIOL – 217H – Community ecology (see Biology)

ERSC 220 – Methods for environmental assessment

This course outlines the strategies and methods used to assess the impacts of selected chemical contaminants and other stressors on ecosystems. You will learn how to quantify pollution, determine the effects of environmental stress on biota, and describe the physical and chemical

characteristics of major environmental compartments (air, water, soils). Prerequisite: CHEM 100. Excludes ERSC 221H.

ERSC 221H – 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: CHEM 100 or one-half credit in Introductory Chemistry. Excludes ERSC 220. (offered only in Oshawa)

ERSC 230H – 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: PHYS 100 or one Chemistry credit at the 100-level.

ERSC – CHEM 241 – Environmental chemistry (see Chemistry)

ERST – CAST 250 – Environmental and resource management: Canadian perspectives

This course considers theories of renewable and non-renewable resource management, and examines these practices with respect to specific Canadian resources. Prerequisite: ERSC 100.

ERST – GEOG 251H – Methods in human geography and environmental studies (see Geography)

ERST 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: ERSC 100. Excludes ERST 250. (offered only in Oshawa)

ERST – NAST 260 – Introduction to Indigenous Environmental Studies (see Indigenous Studies)

ERSC – BIOL 270 – Environmental science for teacher education

A course in environmental science for prospective elementary school teachers (mainly the primary and intermediate grades), focussing 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. Prerequisite: 5 credits. Normally open only to students who are in the Concurrent or Consecutive Education programs or who are pursuing the Emphasis in Teacher Education, but limited spaces may be available for non Teacher Education students (consult with instructor). Can count towards the B.A. degree in Environmental & Resource Studies but not towards the B.Sc. degree in Environmental & Resource Science.

ERSC – GEOG 301H – Fundamentals of vector Geographical Information Systems

This course focusses 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: ERSC – GEOG – BIOL 208H and ERSC – GEOG 209H.

ERSC – BIOL 303H – Research design and data analysis (see Biology)

ERSC/ERST 307H – Environmental risk assessment: Issues and techniques

This course explores the theory and practice of 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: 10 credits including 0.5 credit in Environmental & Resource Studies/Science at the 200-level or higher.

ERST 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: ERST – CAST 250.

ERST – CAST – POST 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 credit in Environmental & Resource Studies, Canadian Studies, Politics or Business Administration at the 200-level or higher.

ERST 311H – 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: 10 credits including one credit in Environmental & Resource Science/Studies at the 200-level or higher.

ERST – CAST – WMST 315 – Women, health and environment (see Women's Studies)

ERSC 316H – 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 credit in Environmental & Resource Science/Studies at the 200-level or higher.

ERST 317H – Ecological risk assessment

This course extends the concepts and methods developed in ERST 307H – Environmental risk assessment, to the emerging field of ecological risk assessment. We shall study ecological integrity and ecosystem management principles with special attention to the assessment of harm to complex systems associated with industrial practices. The course may be taken for a science credit by undertaking an appropriate technical project. Prerequisite: ERST 307H.

ERSC 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: ERSC – BIOL 216H and 217H or ERSC 221H or 220.

ERST 325H – 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 credits including ERSC 100.

ERST – PHIL 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 credit in Environmental & Resource Studies or Philosophy at the 200-level or higher.

ERST – CAST – GEOG 333H – Wilderness resources (see Geography)

ERST – CAST 334H – The Canadian food system: A community development approach

This interdisciplinary course examines agriculture and the food system in Canada, emphasizing community development initiatives undertaken to enhance social, environmental, and economic sustainability. This course addresses production, distribution, processing, consumption and regulatory issues. It also prepares students to undertake community-based education projects with food and agricultural organizations in subsequent terms. Prerequisite: 10 credits. Strongly recommended: CAST – GEOG – ERST – NAST 204 and/or IDST – ANTH 221.

ERSC 335H – 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: ERSC – BIOL 216H and 217H or ERSC 221H or 220. Students who have successfully completed ERST – CAST 250, may enter the course but must be prepared to do additional background reading.

ERSC 336H – Agriculture and agricultural alternatives

The course focusses 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: ERSC 335H or ERSC – BIOL 216H and 217H or ERSC 221H or 220. Students who have successfully completed ERST – CAST 250, may enter the course but must be prepared to do additional background reading.

ERSC – CHEM 342H – Spectrophotometry and spectroscopy (see Chemistry)

ERSC – CHEM 343H – Chromatography (see Chemistry)

ERSC 345H – 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: CHEM 100.

ERSC 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 credits, three of which are in the sciences.

ERSC 351H – 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: ERSC – BIOL 216H and 217H or ERSC 221H or 220 or ERST – CAST 250.

ERSC 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: ERSC 221H or 220 or ERSC – BIOL 216 and 217H.

ERSC – GEOG 356H – Pedology (see Geography)**ERSC 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: ERSC 221H or 220 or ERSC – BIOL 216H and 217H. Excludes ERST 355. (offered only in Oshawa)

ERSC 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: ERSC 221H or 220 or ERSC – BIOL 216H and 217H or 240. May be taken concurrently with ERSC – BIOL 216H and 217H or an equivalent ecology course with permission of the instructor. Excludes ERST 355. (offered only in Oshawa)

ERST – IDST – POST 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: IDST 200 or ERST – CAST 250 or POST 220.

ERST – NAST 363 – Issues in Indigenous Environmental Studies (see Indigenous Studies)**ERSC – GEOG 365H – 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: ERSC 221H or 220 or GEOG 254H and 256H or GEOG 240. Recommended: ERSC – GEOG 356H.

ERSC 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: 10 credits including ERSC 100. Recommended: PHYS 100.

ERSC 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: BIOL 102H and 103H and either ERSC 221H or 220 or one credit in Chemistry at the 200-level. Recommended: BIOL 206H and 207H.

ERST – CAST – GEOG 372H – Urban environments (see Geography)**ERSC 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: BIOL 102H, 103H, ERSC – GEOG – BIOL 208H, and ERSC 221H or 220 or one credit in Chemistry at the 200-level. Recommended: BIOL 206H and 207H. Excludes ERSC 370. (offered only in Oshawa)

ERST – ECON – CAST 378H – Canadian renewable resource economics

This course is designed to introduce students to the economic theory of renewable resources in a Canadian context. It focusses 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: one credit in Environmental & Resource Studies or Canadian Studies at the 200-level or higher and ECON 101H, 102H or permission of the instructor.

ERST – ECON 381H – Environmental economics (see Economics)**ERSC/ERST 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. 204).

ERSC/ERST 385, 386H, 387H, 388H – Field course

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

ERSC/ERST 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 B 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.

ERSC/ERST 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.

ERSC – GEOG 404H – Hydrochemical fluxes in the hydrosphere (see Geography)**ERSC – BIOL – GEOG 406H – 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. Co- or prerequisite: BIOL 305 or GEOG 353H.

ERSC – BIOL – GEOG 407H – 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: ERSC – GEOG – BIOL 406H.

ERSC – BIOL 412H – Environmental carcinogenesis

This course introduces students to the epidemiological, toxicological and molecular basis of carcinogenesis in humans, with an emphasis on environmental carcinogenesis. Prerequisite: BIOL 102H, 103H and ERSC 221H or 220. Strongly recommended: BIOL 206H, 207H and ERSC – BIOL – GEOG 208H.

ERSC – BIOL 424H – 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: ERSC – BIOL 216H and 217H or ERSC 221H or 220. Recommended: one of ERSC 351H, BIOL 305 or 314H. Students who have successfully completed ERST – CAST 250 may take the course, but must be prepared to do additional background reading.

ERST 425H – 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: 10 credits. Recommended: ERST 325H.

ERSC 435H – 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: ERSC 100 or GEOG 102H or 104H or PHYS 100 or BIOL 102H and 103H; 10 credits.

ERSC – BIOL 439H – Conservation biology (see Biology)**ERSC – CHEM 442H – Advanced analytical chemistry** (see Chemistry)**ERSC – GEOG 445H – Spatial modeling and geographical information systems** (see Geography)**ERSC 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: ERSC – BIOL 216H and 217H or ERST – CAST 250.

ERST – POST – CAST 460H – Public policy in global perspective

This course focusses 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.

ERST – IDST – POST 461H – Global environmental policy

The course focusses 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 ERST – IDST – POST 360, ERST – CAST – POST 460H or POST 220.

ERSC – GEOG 464H – 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: ERSC – BIOL 216H and 217H, GEOG 254H and 256H or ERST – CAST 250, plus one credit in Environmental & Resource Science/Studies or GEOG at the 300-level or higher.

ERST – CAST 467H – 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 credits.

ERST 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 credits including ERSC 100.

ERSC/ERST 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. 204).

ERSC/ERST 485, 486H, 487H, 488H – Field course

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

ERSC/ERST 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.

ERSC – BIOL 497H – Global change of aquatic ecosystems (see Biology)**ERST – NAST 497H – Sustainable Indigenous communities** (see Indigenous Studies)

Environmental Chemistry

Program Co-ordinators

Chair of the Chemistry Department

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

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 same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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.
- ERSC 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 ERSC. The program must include:

- CHEM 100, 200, 240H and CHEM – ERSC 241, 342H, 343H
- CHEM 212 (for organic chemistry) or both CHEM 321H and CHEM 323H (for inorganic chemistry)
- CHEM 408H, CHEM 441H, or CHEM – ERSC 442H
- ERSC 100, 345H, 370, 406H and 407H
- 2 additional credits in Chemistry or ERSC beyond the 200-level
- BIOL 102H and 103H
- 1 credit in MATH 110 or in MATH 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:

- CHEM 100, 200, 240H and CHEM – ERSC 241
- CHEM 212 (for organic chemistry) or one of 321H or 323H (for inorganic chemistry)
- CHEM – ERSC 342H or 343H
- ERSC 100, 345H and 370
- 1.5 additional credits in Environmental & Resource Science
- BIOL 102H and 103H
- 1 credit in MATH 110 or in MATH 105H and another 0.5 credit in Mathematics

Forensic Science

Telephone: (705) 748-1011 ext. 7200
Fax: (705) 748-1003

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Web: www.trentu.ca/forensicscience

Associate Professor and Director of the Program

P. Wilson, B.Sc., M.Sc., Ph.D. (McMaster)

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 rigor 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 within a legal context, 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 program for 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 4U 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

A Personal Statement of Experience (PSE) is required as part of the application process (see <http://www.trentu.ca/academic/forensicscience/admission.html>)

BACHELOR OF SCIENCE IN FORENSIC SCIENCE

- See p. 22 for requirements which apply to all undergraduate degree programs.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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.
- A cumulative average of 65% is required for the B.Sc.F.S. degree.
- 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 society and justice are introduced within a forensic context.
- FRSC 101, 110H
- BIOL 103H, 105, CHEM 100, MATH 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.
- FRSC 201H, 210H, 211H
- ANTH 101H, 102H, BIOL 205H, BIOL – CHEM 231H, CHEM 240H
- 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 and a course on trends in forensic science that synthesizes and re-integrates the two approaches and introduces new forensic techniques and a course on trends in forensic science. 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.
- FRSC 300H, 301H, 310H, 311H
- ANTH 240, BIOL 362H, 308H
- 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.
- FRSC 312H
- ANTH 341, BIOL 460H, CHEM – ERSC 342H, 343H
- FRSC 402D or both FRSC 401 and 1 additional science credit

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006–2007 including when they will be scheduled.

FRSC 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.

FRSC 110H – 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. Open only to students registered in the Forensic Science program.

FRSC 201H – Mentorship/placement

Students gain first-hand experience of the practice of forensic science in one of its three dimensions – science, policing, or law – and will apply the theories and concepts acquired in their first three terms. Open only to students registered in the Forensic Science program.

FRSC 210H – 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. Open only to students registered in the Forensic Science program.

FRSC 211H – Police powers

This course 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. Open only to students registered in the Forensic Science program.

FRSC 300H – Laboratory DNA forensics

This course will examine the theoretical foundations and techniques of DNA analysis with leading-edge technology in light of forensic cases. Students will learn the theory and practice of generating forensic DNA evidence. Open only to students registered in the Forensic Science program.

FRSC 301H – Crime scene investigation

This course explores forensic investigation techniques – observation, analysis, evidence identification, collection and preservation, and interviewing. The course will emphasize gathering experts' scientific evidence and assessing it. Students will explore use of evidence in Canadian court cases, the decision-making processes in court, and the roles of investigators, advocates, judges and juries. Open only to students registered in the Forensic Science program.

FRSC 310H – 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. Open only to students registered in the Forensic Science program.

FRSC 311H – 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. Open only to students registered in the Forensic Science program.

FRSC 312H – 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. Open only to students registered in the Forensic Science program.

FRSC 391H, 392H – Reading course

This course provides an opportunity for more intensive or broader study of a selected topic in forensic science under the guidance of a faculty member. This course will be open to FRSC students in their third or fourth year of the Forensic Degree Program. Students may only take only one of FRSC 391H (FA) or 392H (WI) depending on course scheduling. Open only to students registered in the Forensic Science program.

FRSC 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 co-ordinator before the end of the Winter session of third year. Open only to students registered in the Forensic Science program.

FRSC 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.

French Studies

See Modern Languages & Literatures

Geography

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Professor and Chair of the Department

C. L. McKenna Neuman, B.Sc. (Queen's), M.Sc. (Guelph), Ph.D. (Queen's)

Professors

A. G. Brunger, B.Sc. (Southampton), M.Sc. (Alberta), Ph.D. (Western Ontario);
J. M. Buttle, B.A. (Toronto), Ph.D. (Southampton) (*on leave Winter term*); **J. G. Cogley**, M.A. (Oxford), M.Sc., Ph.D. (McMaster); **P. M. Lafleur**, B.Sc. (Brandon), M.Sc. (Trent), Ph.D. (McMaster); **C. H. Taylor**, M.A. (Canterbury), Ph.D. (McGill) (*on leave 2006–2007*)

Associate Professors

R. Ponce-Hernandez, B.Eng., M.Sc. (Chapingo), D.Phil. (Oxford) (*on leave Winter term*);
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); **W. S. Tufts**, B.A. (McGill), M.A. (Queen's), Ph.D. (York)

Technicians/Demonstrators

M. A. Ecclestone, B.Sc. (Trent), M.Sc. (Guelph); **S. Gardiner**, **H. T. Thompson**, B.A. (York)

Adjunct Faculty

K. Beesley, B.E.S., Ph.D. (Waterloo)

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); **G. A. Nader**, B.A. (London), Ph.D. (Durham)

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

- GEOG 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 GEOG 103H and one of 102H, 104H or 105H and certain courses at the 400-level immediately after GEOG 208H and GEOG 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.
- 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 same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- The Geography department offers both a B.A. and a B.Sc. degree.
- Students who have successfully completed PSYC 215 are exempt from the GEOG 208H requirement in the joint-major program and in the minor in Geography.
- Students who have taken MAST 150 and achieved a mark of at least 75% are exempt from taking GEOG 208H. Exemption from GEOG 208H also exempts students from the GEOG 208H prerequisite for other Geography courses.
- 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
263H	311H	332H	372H
271H		333H	373H
		337H	376H
		363H	380H
			464H

- For the single-major and joint-major General B.A. programs, GEOG 386H and one course from category B are strongly recommended.

The single-major Honours program. At least 10 credits in Geography, including:

- GEOG 103H and one of 102H or 104H or 105H
- GEOG 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:

- GEOG 103H and one of 102H or 104H or 105H
- GEOG 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 GEOG 401

The single-major General program. At least 6 credits in Geography, including:

- GEOG 103H and one of 102H or 104H or 105H
- GEOG 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:

- GEOG 103H and one of 102H or 104H or 105H
- GEOG 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 same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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
244H	311H	342H	365H
246H	357H	351H	404H
254H		353H	406H
256H		354H	407H
		355H	445H
			464H

- For the single-major and joint-major General B.Sc. programs, GEOG 386H and one course from category B are strongly recommended.

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

- GEOG 103H and one of 102H or 104H
- GEOG 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:

- GEOG 103H and one of 102H or 104H
- GEOG 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 GEOG 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:

- GEOG 103H and one of 102H or 104H
- GEOG 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:

- GEOG 103H and one of 102H or 104H
- GEOG 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, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

GEOG 103H – 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. Field work.

GEOG 104H – 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 GEOG 102H and 105H. Field work.

GEOG 105H – 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 cannot act as a prerequisite for science courses in Geography unless otherwise noted. Excludes GEOG 102H and 104H.

GEOG – CAST – ERST – NAST 204 – Canada: The land (see Canadian Studies)

GEOG – ERSC – BIOL 208H – 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. Workshops involve computer-based assignments providing practical experience in statistical application. Prerequisite: GEOG 103H and one of 102H, 104H or 105H or ERSC 100 or BIOL 102H and 103H. Recommended: MATH 150 and 100-level computing experience.

GEOG – ERSC 209H – 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: GEOG 103H and one of 102H, 104H or 105H or ERSC 100 or BIOL 102H and 103H. Elementary or intermediate-level experience with microcomputers and their operating systems is desirable.

GEOG 211H – 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 GEOG 103H and one of 102H or 104H or ERSC 100. Field work.

GEOG – AHCL – ANTH 223H – The ancient city (see Ancient History & Classics)**GEOG 231H – 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: GEOG 103H and one of 102H, 104H or 105H.

GEOG 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 the instructor.

GEOG 244H – Microclimatology (Sc)

This course focusses 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: GEOG 102H or 104H or ERSC 100.

GEOG 246H – 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: GEOG 102H or 104H or ERSC 100.

GEOG – ERST 251H – Methods in human geography and environmental studies

The course will focus on methods used in geographical and environmental research contexts. Methods examined in the course include: surveys, content analysis, interviews, focus groups and participatory action research. Prerequisite: ERSC 100 or minimum of 60% in GEOG 103H and one of 102H, 104H or 105H.

GEOG 254H – 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: GEOG 102H or 104H or ERSC 100.

GEOG 256H – 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: GEOG 102H or 104H or ERSC 100.

GEOG – CAST 263H – 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: GEOG 103H and one of 102H, 104H or 105H. Field trip.

GEOG – CAST 271H – Cities: an introduction to urban geography

In cities flows of people, money, information and commodities intersect and are accompanied by economic, political, social and cultural change. This course examines the transformation of contemporary North American cities by global chains of activity. Prerequisite: GEOG 103H or ECON 101H and 102H or SOCI 100.

GEOG 296H – Wealth, power and space: an introduction to economic geography

The course is an introduction to basic themes in economic geography from a political economy perspective. The main areas of discussion are: theoretical and historical frameworks of the global economy; theories of industrial location and relocation; and contemporary geo-economic trends, including transnational labour markets and the uneven economic impact of environmental change. Prerequisite: GEOG 103H and one of GEOG 102H, 104H or 105H.

GEOG – ERSC 301H – Fundamentals of vector GIS (Sc) (see Environmental & Resource Science/Studies)

GEOG 303H – 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: GEOG 208H or MATH 150.

GEOG 311H – Philosophy of geography

This course examines significant conceptual approaches to the study of geography that have influenced contemporary Western geographic thought and practice. Prerequisite: 10 credits including GEOG 208H and 211H or GEOG – ERST 251H. Excludes GEOG 411H.

GEOG – WMST – CAST 322H – 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: GEOG 251H or WMST 201 or permission of the instructor.

GEOG – CAST 332H – Settlement geography

Process and forms of modern settlement in Canada and “New Frontier” lands such as Australia, South Africa, Brazil and Israel/Palestine. Discusses themes of emigration and immigration; frontier, group and ethnic settlement within both metropolitan and non-metropolitan settings. Prerequisite: GEOG 263H.

GEOG – CAST – ERST 333H – 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: GEOG 231H or CAST 200H or CAST 204 or ERST 250.

GEOG – CAST 337H – Critical geography of tourism

A critical perspective is used to explore the geographies of tourism-related industries and workplaces and the social and environmental impacts of tourism in urban and rural settings. Special attention is given to the Canadian experience. Prerequisite: GEOG 231H.

GEOG 341H – 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: GEOG 245 or 244H or 246H.

GEOG 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: one credit from B.Sc. category A (including either GEOG 244H or 246H) and GEOG 208H and 211H or permission of the instructor.

GEOG 351H – 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: GEOG 250 or 254H or 256H or GEOG 240.

GEOG 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: 10 credits including GEOG 245 or 244H or 246H. Field work.

GEOG 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: GEOG 250 or 254H or 256H or GEOG 240 or permission of the instructor. Field work.

GEOG 355H – 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: GEOG 353H and MATH 105H or MATH 110 or equivalent.

GEOG – ERSC 356H – 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: GEOG 250 or 254H or 256H or GEOG 240 or BIOL – ERSC 202 or BIOL – ERSC 217H or permission of the instructor.

GEOG 357H – 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: GEOG 208H and GEOG 245 or 250 or two of GEOG 244H, 246H, 254H or 256H and either MATH 105H or MATH 110 or 4U Calculus.

GEOG – CAST 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: GEOG 263H. Field trip.

GEOG – CAST 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: GEOG 103H and one of 102H, 104H or 105H or permission of the instructor.

GEOG – ERSC 365H – Soil management and conservation (Sc) (see Environmental & Resource Science/Studies)

GEOG – CAST 371H – 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: GEOG 271H.

GEOG – CAST – ERST 372H – Urban environments

This interdisciplinary course challenges traditional conceptualizations and representations of Canadian cities as the antithesis of wilderness. Topics include: history of urban development, urban improvements and urban green spaces; impacts of modernist suburban development on the urban form; rejections of modernist urban planning; and the value of an ecosystem approach to planning for urban sustainability. Prerequisites are GEOG 271H or CAST 200H or CAST 204 or ERST 250. Excludes GEOG 203H.

GEOG – CAST 373H – Urban social geography

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: GEOG 271H.

GEOG – CAST 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: GEOG 103H and one of 102H, 104H or 105H or both ECON 101H and 102H or SOCI 100.

GEOG – CAST 380H – Regional economic geography of Canada

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: GEOG 103H and one of 102H, 104H or 105H or both ECON 101H and 102H.

GEOG 386H – 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 research projects in various geographical specializations. The course centres on a mandatory field trip during the Reading Week. Prerequisite: GEOG 208H and 211H or 251H. Minimum of six days in the field at cost to the student.

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

Prerequisite: GEOG 103H and one of 102H, 104H or 105. (offered only if instructor is available.)

GEOG 395, 396H, 397H, 398H – Special topic in geography (offered only occasionally)

GEOG 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. GEOG 402D is double-credit in Geography. GEOG 401 is single-credit because the same thesis is submitted to the other department/program in a joint-major. Prerequisite: two 300-level credits in Geography and a 70% average in Geography courses. Students must obtain the approval of the department before March 31, 2006.

GEOG – ERSC 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: GEOG 211H and permission of the instructor.

GEOG – ERSC – BIOL 406H – The geochemistry of natural waters (Sc) (see Environmental & Resource Science/Studies)

GEOG – ERSC – BIOL 407H – The fate of contaminants in the aquatic environment (Sc) (see Environmental & Resource Science/Studies)

GEOG 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. 204) 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: one credit from B. Sc. Category C (see above). Excludes GEOG 401 and 402D. Open only to fourth year Geography students.

GEOG – ERSC 445H – 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: GEOG – ERSC 301H or GIS Applications Specialist Certificate (or equivalent) and basic knowledge of Statistics (GEOG – ERSC208H or MATH 150).

GEOG – ERSC 464H – Watershed management in developing countries (Sc) (see Environmental Resource Science/Studies)

GEOG 470 – Research in human geography

Reviews possibilities for, and methods of, research in applied human geography. Includes research requested by a community group, government agency or business, through the Trent Centre for Community-Based Education (p. 204) or the Geography department. Develops means for increasing employment potential through skills identification, communication improvement and resumé preparation. Prerequisite: one credit from B.A. category C (see above). Excludes GEOG 401 and 402D. Open only to fourth year Geography students.

GEOG 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 the instructor. (offered only if instructor is available)

German Studies

See Modern Languages & Literatures

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, Indigenous Studies, Philosophy, Politics, 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 in other single- or joint-major Honours or General programs may qualify for an Emphasis in Global Studies (p. 212). All students with an interest in global studies are encouraged to incorporate a study abroad opportunity in their Trent education. Likewise Global Studies students may wish to augment their international experience by choosing to live in the "Trent Global Living Community." TGLC is residence space specifically for students who want to learn about different cultures and traditions by living and learning with people from all over the world. Learn more about TGLC by contacting the Trent International Program or the Housing Services office.

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: IDST 100, HIST 170 or POST 220. Other courses are chosen from an approved list in consultation with the program co-ordinator. At least twelve credits, 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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.
- The approved course list is available at www.trentu.ca/tip and in the Trent International Program Office.

2. JOINT-MAJOR HONOURS PROGRAM IN GLOBALIZATION: COMMUNITIES & IDENTITIES

Telephone: (705) 748-1011 ext. 1778

E-mail: hughhodes@trentu.ca

Program Co-ordinator

Hugh Hodges, M.A., Ph.D. (Toronto)

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 focusses 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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 ANTH 101H and 102H, HIST 170 and GEOG 103H.
- A joint-major in Globalization excludes an Emphasis in Globalization.

The joint-major Honours program. At least 7 credits chosen from the following:

- POST 220, CUST – NAST 230, ANTH 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

ENGL 2400
 POST 320H, 326H, 336H, 420H, 428, 495
 POST – IDST 350H, 351H, 423H, 427H
 POST – IDST – CAST 424
 POST – SOCI 323
 WMST 295H

B

ANTH 408H, 409H, 450H
 ANTH – IDST 301, 304, 306, 407, 475H, 476H
 CAST – POST – SOCI 300
 CAST – POST 440
 CAST – ENGL 466
 CUST 345
 CUST – IDST 332
 CUST – WMST 220
 ENGL 3601H, 3603H, 3605H, 4600
 ERST – IDST – POST 360
 ERST – IDST – POST 461H

HIST 200, 365, 450, 465
 HIST – CAST 304
 HIST – IDST 2401H, 2402H, 2471, 3401H, 3402H
 IDST 313, 395, 4971H, 4972H
 IDST – POST 322H, 425H
 IDST – SOCI 312H, 396H
 NAST 430
 NAST – ERST 260, 363
 NAST – IDST 305, 360, 482
 SOCI 347, 382H, 480
 WMST 300
 WMST – IDST 225
 WMST – POST 388H
 WMST – SOCI 386H, 387H

3. JOINT-MAJOR HONOURS PROGRAM IN INTERNATIONAL POLITICAL ECONOMY

Telephone: (705) 748-1011 ext. 5348

E-mail: comanique@trentu.ca

Program Co-ordinator

Colleen O'Manique, B.A. (Carleton), M.Sc., Ph.D. (York)

The joint-major Honours program in International Political Economy (IPE) is intended for students with an 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 Politics, as well as Anthropology, Business Administration, Canadian Studies, Environmental & Resource Science/Studies, Geography, History, Indigenous Studies, Sociology and Women's Studies.

Notes

- See p. 22 for requirements which apply to all undergraduate degree programs.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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 joint-major Honours program. At least 7 credits, including:

- ECON 101H, 102H, IDST 100, IDST – POST 322H, POST 220
- 1 credit from each of A, B and C
- 0.5 additional credit from one of A, B, or C
- at least 1 of the credits in the program at the 300-level and at least 1 at the 400-level

A

ECON 311H, 312H, 362H, 398H
 ECON – IDST 331H, 333H
 IDST 310

B

ERST – IDST – POST 461H
 ERST – POST – CAST 460H
 HIST 250
 HIST – CAST 308
 IDST 311H
 IDST – CAST – POST 424

POST 320H, 324H, 325H, 326H, 420H, 428
POST – CAST 321H
POST – IDST 350H, 351H, 350H, 351H, 423H, 425H, 427H
POST – SOCI 323H
WMST – POST 388H

C

ANTH – IDST 301, 304, 407
ERST – IDST – POST 360
HIST – IDST, 2401H, 2402H, 247, 3401H, 3402H
IDST 200, 397H, 398H, 400, 411H, 422
IDST – ANTH 221
NAST – IDST 305
WMST – IDST 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 1. TIP also provides information on some short term programs abroad; see www.trentu.ca/tip.

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 Indigenous Studies sponsors a year of study in Thailand. Both the International Development Studies and Indigenous 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 & Literatures

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

T. J. Stapleton, B.A. (Memorial), M.A., Ph.D. (Dalhousie);

Professors

J. S. Milloy, B.A. (St Patrick's), M.A. (Carleton), D.Phil. (Oxford); **J. Sangster**, B.A. (Trent), M.A., Ph.D. (McMaster) (*on leave 2006–2007*); **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); **J. E. Struthers**, M.A. (Carleton), Ph.D. (Toronto); **G. Taylor**, B.A., Ph.D. (Pennsylvania); **K. Walden**, M.A., Ph.D. (Queen's) (*on leave 2006–2007*)

Associate Professors

O. Andriewsky, B.A. (Brown), M.A., Ph.D. (Harvard); **I. Elbl**, M.A. (Charles), M.A., Ph.D. (Toronto); **J. Jennings**, B.A. (Toronto), M.A. (Calgary), Ph.D. (Toronto); **C. Kay**, B.A. (Toronto), M. Phil. (Oxford), M.A., Ph.D. (Yale); **K. Siena**, B.A. (SUNY), M.A. (Rochester), Ph.D. (Toronto); **F. Harris-Stoertz**, B.A. (Calgary), M.A., Ph.D. (California); **R. A. Wright**, B.A. (Trent), M.A., Ph.D. (Queen's)

Assistant Professors

M. Boulby, B.A. (Queen's), M.A. (London), Ph.D. (Toronto); **D. Anastakis**, B.A. (Western), M.A., Ph.D. (York); **A. Cazorla-Sanchez**, Ph.D. (Granada); **F. Dunaway**, B.A. (N. Carolina), Ph.D. (Rutgers); **J. Hurl-Eamon**, B.A. (UWO), M.A. (Queen's), Ph.D. (York); **V. Nguyen-Marshall**, B.A. (Dalhousie), M.A. (British Columbia), Ph.D. (British Columbia)

Adjunct Faculty

M. Buddle, B.A. (Guelph), M.A., Ph.D. (UNBC); **M. Elbl**, M.A. (Charles), M.A. (Toronto); **D. Gorman**, B.A. (St. Francis Xavier), M.A. (Queen's), Ph.D. (McMaster); **A. King**, B.A., M.A., Ph.D. (Toronto); **D. Schweitzer**, B.A., M.A. (Guelph), Ph.D. (London); **T. Smith**, B.A. (Toronto), Ph.D. (Rutgers); **N. Thornton**, B.A. (Trent), B.Ed. (Ottawa), Ph.D. (Adelaide); **H. Vreugdenhil**, B.A. (Redeemer), M.A. (Toronto)

Associated Faculty

Ancient History & Classics: **K. H. Kinzl**, D.Phil. (Vienna); **D. F. R. Page**, B.A. (Sheffield)

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); **E. H. Jones**, B.A. (Saskatchewan), M.A. (Western Ontario), Ph.D. (Queen's); **D. McCalla**, B.A. (Queen's), M.A. (Toronto), D.Phil. (Oxford); **P. M. Morton**, M.A., Ph.D. (Toronto); **S. T. Robson**, B.A. (British Columbia), D.Phil. (Oxford); **A. Wilson**, M.A. (Dalhousie), Ph.D. (Toronto)

The History department offers courses on Canadian, American, Latin American, European, African, Middle Eastern 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.
- Admission to courses at the 400-level requires a cumulative average of 65%, 15 credits and the completion of all requirements for a general B.A. in History. Students may apply for admission after completion of 14 credits, in which case the application must be approved by the chair of the department.

- 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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. 22 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	3071H
208	221H	3072H
225	222H	308
230	228H	311
2401H	230	312
247	232	315
255	235	316
276	254	324
3031H	255	3954
311	270	3954H
355H	3021H	3955H
360	3022H	
375	3031H	
380	304	
382	306	
385		
		205
		208
		220
		225
		2401H
		2402H
		247
		250
		276
		320
		325
		326
		330
		335
		336
		337
		3401H
		3402H
		351
		355H
		360
		365
		370
		375
		380
		382
		385
		3954

- One credit in Classical History at an upper level (except for AHCL 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.

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, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

HIST 1001 – Canadian lives I

This course takes an innovative approach to the social, political, and cultural history of Canada, pre-20th Century. The lives and experiences of Canadians – workers, political leaders, the famous, the infamous, and sometimes the "ordinary" – are examined and interpreted to reveal a snapshot of Canadian society. (offered only in Oshawa)

HIST 1002H – Canadian lives II

This course takes an innovative approach to the social, political, and cultural history of Canada. The lives and experiences of Canadians – workers, political leaders, the famous, the infamous, and sometimes the "ordinary" – are examined and interpreted to reveal a snapshot of Canadian society, largely through the twentieth century. (offered only in Oshawa)

HIST 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

HIST – CAST 102 – Nation and citizenship: Interpreting Canada

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. (offered only in Oshawa)

HIST 120 – Western European history from the Middle Ages to the present

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. (offered only in Oshawa)

HIST 150 – Ten days that shook the world

Topic for 2006-2007: 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.

HIST 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.

HIST 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.

HIST 208 – The social history of Europe, 1500-1800

The course traces early modern European history from the Renaissance to the French Revolution. With an emphasis on the different experiences of Europeans based upon their age, gender, class and religion. (offered only in Oshawa)

HIST 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.

HIST 220 – Europe from the French Revolution to the fall of communism

A study of problems in the development of modern Western society from various perspectives, using a variety of modern and contemporary sources.

HIST – CAST – POST 221H – "Empire Ontario" 1867-1945 (see Canadian Studies)**HIST – CAST – POST 222H – Ontario since 1945: From "the common good" to "common sense" (see Canadian Studies)**

HIST 225 – The Russian Empire

The making and unmaking of the Russian Empire from the rise of Muscovy to the end of the Romanov dynasty.

HIST – CAST-POST 228H – Canada in the 1960s: Irony and identity (see Canadian Studies)**HIST – CAST 230 – The making of Canada, 1760 – 1873**

War, politics and society in British North America from the Conquest to Confederation.

HIST – CAST 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.

HIST – CAST 235 – From the Great War to the War on Terror: Canada since 1914

Did the 20th century, in Prime Minister Wilfrid Laurier's words, "belong to Canada? This course traces, from a national approach, the evolution of Canada over the 20th century, focussing on responses to economic development and dislocation, national unity and political partisanship, war and foreign relations, and social and cultural change.

HIST – IDST 2401H – 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, focussing 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.

HIST – IDST 2402H – 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.

HIST – IDST 247 – Introduction to Latin America, 1500 – 1990

Topics include native resistance, colonial domination, slavery, independence, neo-colonialism, nation building, dictatorship, and revolutionary change.

HIST 250 – Making a "globalized" world: A 20th century history

This course focusses on the role of economic and technological changes in the shaping of the world in the 20th century, looking as well at the impact of technology on the environment and the tensions between forces of "globalization" and "modernization" within national states and traditional cultural and religious communities.

HIST – CAST 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.

HIST – CAST – NAST 255 – History of the Indians of Canada (see Indigenous Studies)**HIST – NAST – CAST 270 – History and politics of the Métis** (see Indigenous Studies)**HIST – WMST 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.

HIST – CAST 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.

HIST – CAST 3022H – Quebec 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.

HIST – CAST 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.

HIST – CAST 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.

HIST – CAST 306 – Canadian Intellectual History

This course explores the evolution of Canadian culture and society in the second half of the twentieth century, with an emphasis upon issues of citizenship and the state, left-nationalist and “post-nationalist” ideological formations, the changing relationship of the state and cultural production, and the impact of globalization. Excludes HIST 3952 (2005–2006). (offered only in Oshawa)

HIST – CAST 3071H – 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. Field trip fee of \$50.

HIST – CAST 3072H – 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.

HIST – CAST 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.

HIST 311 – Colonial and revolutionary America, 1630 – 1800

Explorations in the social, economic, religious and intellectual aspects of political change in the thirteen colonies.

HIST312 – Modern United States: Culture, politics, and identity from 1900 to the present

What does it mean to be an American? Ranging from 1900 to the present, this course examines cultural, political, and social developments in the modern United States, with a special emphasis on the changing and contested meanings of national identity. Excludes HIST 312H (2006WI)

HIST 315 – Triumph and tragedy: United States foreign policy, 1945 – 1990

Major factors and historical processes that shaped American foreign policies during the Cold War, with special attention to the Soviet-American confrontation, third world revolutions, the emergence of the Central Intelligence Agency, the War in Vietnam, and the interactions between foreign and domestic policy making in American politics. Excludes HIST 3952H (2004WI).

HIST – CAST – WMST 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.

HIST 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 online only)

HIST – CAST 324 – Canada: The North (see Canadian Studies)**HIST 325 – The Soviet experiment**

A history of the Soviet Union from 1917 to 1991. The course examines this history as a series of social, political, economic, and cultural experiments with a focus on the complexities and contradictions of these transformations.

HIST – SOCI 326 – The other Europe

The history of the “small nations” and minorities of East Central Europe between 1848 and 1989 with special emphasis on the Czechs, Poles, Jews and Ukrainians. The course will focus on modernization and nation-building and the social aspects of integration and disintegration. Excludes HIST 223.

HIST 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.

HIST 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.

HIST 336 – The era of the Second World War

The major focus is on the European experience in a global context.

HIST 337 – 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. Excludes HIST 337H (2004-2005).

HIST – IDST 3401H – 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.

HIST – IDST 3402H – 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.

HIST – FREN 351 – La civilisation française (see French Studies)**HIST 355H – Medieval warfare**

An examination of developments in warfare during the European Middle Ages (300 to 1500 CE).

HIST 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. Excludes HIST 200.

HIST 365 – The history of the Middle East

A survey of the Modern Middle East from 19th-century Ottoman rule to the present day. Excludes HIST 3952 (2004-2005).

HIST – IDST 375 – The history of Eastern Asia 15th century to the present

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. Excludes HIST 370 (2005–2006)

HIST 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. Excludes HIST 380H (2005FA).

HIST 382 – The family in England, 1500-1900

A social history of the changes in family life in England wrought by the reformation, renaissance, civil war, enlightenment, and industrialization. While focussing upon plebeian families, it considers broad legal and social trends that affected all families and all members of the English household, including extended family, servants, and apprentices. Excludes HIST 3953 (2005–2006). (offered only in Oshawa)

HIST 385 – The history of crime in England

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. (offered only in Oshawa)

HIST 395 – SPECIAL TOPIC COURSES**HIST 3954 – Cuban-Canadian-U.S. relations**

This course explores Canadian and American relations with the Republic of Cuba from the era of the Spanish-American war to the present. Special emphasis will be given to the Castro era, and to the divergent North American attitudes and policies towards the Cuban revolution. (offered only in Oshawa)

HIST – NAST 400 – Research seminar in Indigenous history (see Indigenous Studies)

HIST – CAST 403 – History of night

An introduction to contemporary approaches to cultural history through an investigation of witchcraft, crime, sexuality, entertainment and other themes related to the dark side of human experience.

HIST 405 – Topics in medieval history

Topic for 2005–2006: Medieval England. We will explore themes in English medieval history, including warfare, peasant life, women, childhood, kingship and medicine and other subjects.

HIST – CAST 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.

HIST – CAST 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.

HIST 408 – 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 major shifts in American politics since the 1930s. Excludes HIST 4954 (2005–06).

HIST – CAST 420 – Canadian images – (see Canadian Studies)**HIST – CAST – NAST 425 – The evolution of the Settlement Commonwealth (see Indigenous Studies)****HIST 430 – Topics in modern German history**

Topic for 2006–2007: Nazism. Advanced seminar on select topics in the history of the Third Reich.

HIST – CAST – POST 435 – The history of the radical book in Canada, 1860 – 1970 (see Canadian Studies)**HIST 440 – Topics in modern comparative European history**

Topic for 2006–2007: Europe between the Wars (1918–1939). This course will look at the major developments in European politics and societies during the period, and particularly to the processes of destruction of democracies and the rise of political extremism.

HIST 447 – Topics in Latin American history

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.

HIST 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.

HIST 455 – Topics in the history of early modern Europe

Medicine and Society in Europe: 1500–1800. A seminar course of select aspects of the history of health, healing and early modern culture.

HIST 456 – The family in England, 1500–1900

HIST 382 offered at the 400-level. Students are required to attend lectures and tutorials in HIST 382. Excludes HIST 4959 (2005–2006). (offered only in Oshawa)

HIST 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.

HIST 465 – Topics in the history of the Middle East

Topic for 2006–2007: Islam and Terrorism. Advanced seminar course on select aspects of the history of the Middle East. Excludes HIST 4958 (2004–2005)

HIST 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 be also be examined.

HIST – CAST 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. Field trip fee is \$125.

HIST – CAST 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.

HIST – CAST – POST 477 – Studies in Canadian social policy (see Canadian Studies)**HIST – CAST 478 – 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. Excludes HIST–CAST 4952 (2005–2006)

HIST – CAST 479 – Canadian Intellectual History

HIST – CAST 306 offered at the 400-level. Students are required to attend lectures and tutorials in HIST 306. Excludes HIST 4956 (2005–2006) (offered only in Oshawa)

HIST 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. Permission from relevant instructors and departmental approval is essential before registering. Regular consultation during the year.

HIST 4902 – Era of the Second World War

This course will examine the strategic, technological, military and social aspects of the Second World War. Beginning with an examination of the world situation at the start of hostilities, it will survey the development of the conflict and its effects on the belligerents, including the social impact of the war.

HIST – CAST 4903 – Issues in the history of Canadian foreign policy

This course will examine Canada's role in international organization (the United Nations and NATO), the Cold War, peacekeeping and Canadian relations with developing nations.

HIST 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.

HIST 495 – Special topic courses**HIST 4952 – Cuban-Canadian-U.S. relations**

HIST 3954 offered at the 400-level. (offered only in Oshawa)

HIST 3954 – Offered at the 400-level. (offered only in Oshawa)**HIST 4953 – The history of crime in England**

HIST 385 offered at the 400-level. Students are required to attend lectures and tutorials in HIST 385. (offered only in Oshawa)

HIST – CAST 4957 – Continental quandary: Canada and the United States in the 20th century

The course explores, through a wide range of books, articles, primary documents and films, the relationship between Canada and the United States in political culture, social differences, economic links, and issues particular to each society. Topics include cooperation and conflict, comparative political dissent, societal divergences, economic integration and Canadian cultural protectionism.

HIST 4958 – Topics in the history of the United States: American Visual Culture

A study of visual images in relation to broad themes in United States history. Topics include: landscape painting and frontier expansion; documentary photography and political reform; mass media portrayals of feminism, civil rights, and other social movements; debates over monuments and memorials; Hollywood film; and the history of modern art.

HIST – CAST 4960 – Ordinary (Canadian?) Lives (see Canadian Studies)

Indigenous Environmental Studies

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E-mail: nativestudies@trentu.ca

or ies@trentu.ca

Fax: (705) 748-1416

Web: www.trentu.ca/ies

Director of the Program

D. Longboat, Roronkiakewen, (Haudenosaunee), B.A. (Trent), M.E.S. (York)

The Indigenous Environmental Studies program provides an interdisciplinary and creative approach to environmental issues affecting Indigenous communities. The program blends Indigenous and western environmental perspectives and is offered jointly by Environmental & Resource Science/Studies and Indigenous Studies. It is available as a Specialization in either the B.A. or B.Sc. programs or as a Diploma. The Diploma is intended for students of Indigenous ancestry.

DIPLOMA IN INDIGENOUS ENVIRONMENTAL STUDIES

- The Diploma is a two-year program open to students 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. or B.Sc. program. 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 D. Longboat, Director.

Courses

Communications 92H, a two year course provides the academic skills, attitudes, strategies and mutual support systems for the Indigenous Studies Diploma, Indigenous Management and Economic Development Program, and the Indigenous Environmental Studies Program.

During either the first or second year, students are required to successfully complete a field course, ERSC – NAST 215H. The following 6.5 credits are required to complete the program:

- ERSC 100, ERSC – NAST 215H, ERST – CAST 250, ERST – NAST 260, NAST 100, 150H and 151H
- 1 additional credit from Indigenous 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 Indigenous Studies and in the Bachelor of Science program in Environmental & Resource Science. The Specialization is designed to provide students with a theoretical and practical framework for working on environmental and natural resources issues that involve 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."
- NAST – ERST 497H is recommended for the Specialization in Indigenous Environmental Studies
- ERSC – NAST 215H is not open to students in the Bachelor of Science program.
- Students earn the Specialization in Indigenous Environmental Studies by successfully completing the following credits:
 - ERSC 100, NAST 100, ERST – CAST 250, ERST – NAST 260 and 363, either ERSC 220 or ERSC – NAST 215H.
 - 1 additional credit in Environmental & Resource Science/Studies
 - 1 additional credit in Indigenous Studies

Indigenous Management & Economic Development

Telephone: (705) 748-1011 ext. 7466

E-mail: nativestudies@trentu.ca

Fax: (705) 748-1416

Web: www.trentu.ca/nativestudies

The Indigenous 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 Indigenous Studies department and the Business Administration program, thus blending a study of Indigenous culture with management and economic development skills. It is available as a Diploma or as a Specialization in the Business Administration or Indigenous Studies programs.

Notes

- The following options are available in Indigenous Management & Economic Development: a Diploma program in Indigenous Management & Economic Development, a Specialization in the Bachelor of Arts General or Honours degree in Indigenous Studies, a Specialization in the Bachelor of Business Administration Honours degree.
- For information on individual courses see calendar entries for Indigenous Studies and Business Administration.

DIPLOMA IN INDIGENOUS MANAGEMENT & ECONOMIC DEVELOPMENT

- The Diploma is a two-year program open to Aboriginal students who have the equivalent of Ontario Grade 12 or qualify as mature students. Students of Aboriginal ancestry are encouraged to enroll.
- Students are required to successfully complete two non-credit courses: Communications 91H, in the Summer pre-session, and Communications 92H, September through April
- 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 91H and 92H, credits earned in the Diploma program are transferable to the B.A. degree.
- Application to the program should be made to the Ontario University Application Centre.
- Inquiries should be directed to the Academic Programs Co-ordinator, Indigenous Studies department.

Courses

- Communications 91H and 92H
- NAST 100, 150H, 151H, ADMN 102, ADMN – NAST 190 and 272
- at least 1 of NAST 200, 290, 300 or 305
- 1 additional credit in Administration or Indigenous Studies
- 1 additional credit at the 100-level (recommended courses: ADMN 100H and 101H, ANTH 100, IDST 100, PHIL 105, POST 100)

SPECIALIZATION IN INDIGENOUS MANAGEMENT & ECONOMIC DEVELOPMENT

The Specialization in Indigenous Management & Economic Development is available to students in the General or Honours program in Indigenous Studies or in the Bachelor of Business Administration program. The transcripts of students graduating with a General or Honours degree in Indigenous 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 Indigenous Management & Economic Development."

BACHELOR OF ARTS PROGRAM IN INDIGENOUS STUDIES

(with a Specialization in Indigenous Management & Economic Development)

- For the purposes of the degree, ADMN – NAST 190 and 272 are credited as Administrative courses, not Indigenous Studies courses.
- ECON 101H and 102H are strongly recommended for the Honours and General degree
- ADMN 400 is strongly recommended for the Honours degree.

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

- NAST 100, 150H, 151H, 200, 381H and 383H
- at least 1 of NAST 225, 280 or 310

- 3 credits in Indigenous Studies at the 400-level
- 1 additional credit in Indigenous Studies
- ADMN 100H, 101H, 102, 250, 350, ADMN – NAST 190 and 272

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

- NAST 100, 150H, 151H, 200, 381H and 383H
- NAST 225, 280 or 310
- 2 credits in Studies at the 400-level
- ADMN 100H, 101H, 102, 250, 350, ADMN – NAST 190 and 272

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

- NAST 100, 150H, 151H, 200, 381H and 383H
- at least 1 of NAST 225, 280 or 310
- 1 additional credit in Indigenous Studies
- ADMN 100H, 101H, 102, 250, 350, ADMN – NAST 190 and 272

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

- NAST 100, 150H, 151H, 200, 381H and 383H
- at least 1 of NAST 225, 280 or 310
- 1 additional credit in Indigenous Studies
- ADMN 100H, 101H, 102, 250, 350, ADMN – NAST 190 and 272

BACHELOR OF BUSINESS ADMINISTRATION PROGRAM (with a Specialization in Indigenous Management & Economic Development)

- Include the following courses in the B.B.A. program (p. 49): NAST 100, 150H, 151H, ADMN – NAST 190 and 272.

Indigenous Studies

Telephone: (705) 748-1011 ext. 1466

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Associate Professor and Chair of the Department

D. Newhouse, (Onondaga), B.Sc., M.B.A. (Western Ontario)

Canada Research Chair

M. Mumford (Métis), B.A. (Alberta), M.F.A. (Brandeis)

Professor

D. N. McCaskill, B.A. (Winnipeg), M.A. (Carleton), Ph.D. (York)

Associate Professors

L. Davis, B.A. (Queen's), M.A. (Sussex), M.A. (Alberta), Ph.D. (Toronto); **M. Dockstator** (Oneida), B.Sc. (Waterloo), L.L.B. (York), D.Jur. (York) (on leave 2006–2007)

Lecturer

P. Sherman, B.A. (Eastern Connecticut State), M.A. (Connecticut)

Director, Indigenous Environmental Studies Program

D. Longboat, Roronihiakewen, (Haudenosaunee), B.A. (Trent), M.E.S. (York) Ph.D. Candidate, (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)

Indigenous Counselor

J. Argue, B.A., (Guelph), B.A. (Trent)

Professors Emeriti

M. J. Castellano (Mohawk), OC, O.Ont., B.A. (Queen's), M.S.W. (Toronto); LLD (Carleton, Queen's, St. Thomas). **S. I. Williams** (Anshinaabe Kwe), B.A. (Trent), NLIP Dip. (Lakehead), M.E.S. (York)

Indigenous Studies is a multi-disciplinary examination, analysis and reflection upon Indigenous experience in Canada and the world. This exploration, based in western and Indigenous epistemologies, aims to develop a more complex understanding of this experience in its many dimensions: political, economic, social/cultural and spiritual. The Indigenous 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 Indigenous Management & Economic Development program and the Environmental & Resource Studies program in offering the Indigenous Environmental Science/Studies program.

Notes

- For the Diploma in Indigenous Studies program see below.
- For the Diploma in Indigenous Management & Economic Development program see the Indigenous Management & Economic Development section of the calendar (p. 138).
- 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 Indigenous Studies, if they have met the requirements for the joint-major General degree (see below).

BACHELOR OF ARTS PROGRAM IN INDIGENOUS STUDIES

- See p. 22 for requirements which apply to all undergraduate degree programs.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- Only two credits in NAST 280, 380, 225 and 310 may be counted towards the credits in Indigenous Studies required for a major.
- For the Year Abroad program in Thailand, see below.
- For the Specialization in Indigenous Management & Economic Development, see Indigenous Management & Economic Development (p. 138).

The single-major Honours program. At least 9 credits in Indigenous Studies, including:

- NAST 100, 200, 381H and 383H
- at least 1 of NAST 225, 280 or 310
- 3 credits at the 400-level
- 2 additional credits

The joint-major Honours program. At least 7 credits in Indigenous Studies, including:

- NAST 100, 200, 381H and 383H
- at least 1 of NAST 225, 280 or 310
- 2 credits at the 400-level
- 1 additional credit

The single-major General program. At least 6 credits in Indigenous Studies, including:

- NAST 100 and 200
- at least 1 of NAST 225, 280 or 310
- 3 additional credits

The joint-major General program. At least 5 credits in Indigenous Studies, including:

- NAST 100 and 200
- at least 1 of NAST 225, 280 or 310
- 2 additional credits

DIPLOMA IN INDIGENOUS STUDIES

The Diploma in Indigenous Studies program is a two-year program open to Indigenous students who have the equivalent of Grade 12 or who qualify as mature students. Students of Indigenous 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 Ontario University Application Centre.
- Inquiries should be directed to the Academic Programs Co-ordinator, Indigenous Studies department.

Courses

Over a two-year period, students are required to complete seven credits, of which four must be in Indigenous Studies courses. Some 200-level Indigenous Studies courses are available in the first year of the program with the permission of the instructor. Students must successfully complete two non-credit courses, Communications 91H, an intensive three-week Summer course preceding their first year in the program, and Communications 92H in their first year.

- Communications 91H provides skill assessment in studying, writing, reading, speaking and listening. The focus is on Indigenous content. Successful completion leads to admission to the Diploma programs in the fall.
- Communications 92H, provides specific research skills for students in the Diploma in Indigenous Studies program, in the Indigenous Management & Economic Development program and in the Diploma in Indigenous Environmental Studies program. Class instruction, seminars and individual tutoring focus on content relevant to the undergraduate course work of participants.

Summer before Year 1

- Communications 91H – Indigenous Studies pre-session

Year 1

- Communications 92H – Foundations of Indigenous learning
- NAST 100
- 2 additional credits, 1 of which may be a 100-level credit in a discipline other than Indigenous Studies.

Year 2

- 4 credits in Indigenous Studies at the 200- or 300-level, exclusive of NAST 390. 1 credit at the 100-level from a discipline other than Indigenous Studies may be substituted for any of these.

DIPLOMA AND SPECIALIZATION IN INDIGENOUS ENVIRONMENTAL STUDIES

See Indigenous Environmental Studies (p. **Error! Bookmark not defined.**).

DIPLOMA AND SPECIALIZATION IN INDIGENOUS MANAGEMENT & ECONOMIC DEVELOPMENT

See Indigenous Management & Economic Development (p. 138).

YEAR ABROAD PROGRAM

The Indigenous 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 Indigenous 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:

- NAST 180 and 311
- NAST – IDST 305 or NAST 482
- NAST 386 and 390 or NAST 402D (practicum field placement)

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

COMM 92H – Foundations for Indigenous learning

Assists Indigenous students to create the foundations for successful learning in the university environment. Academic skill requirements together with aspects of the individual student's personality, learning styles, emotional intelligence are identified and strategies are developed to support these. Students are given individual coaching as a part of the program. Prerequisite: Students must be enrolled in one of the Indigenous Studies Diploma Programs.

NAST 100 – Introduction to Indigenous Studies

The course examines the contemporary situation of Indigenous People in Canada in the context of their cultural traditions and the historical interactions between Indigenous and non-Indigenous societies.

NAST 150H – Foundations of Indigenous community development

This course explores the foundational elements of community development in an Indigenous context. Concepts of personal development, relationships between individual and community, powerful conversations, effective ways of working together and patterns of interaction are discussed both theoretically and experientially. In a concluding workshop, students create a model of community interaction.

NAST 151H– Foundations of Indigenous community economic development

This course examines lessons learned by First Nations that have taken control over their economic development. A history of Indigenous development before contact with Europeans is followed by a discussion of foundational concepts and best practices of First Nations. A development plan for an actual First Nation concludes the course.

NAST 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)

NAST – ADMN 190 – Introduction to management and decision-making in contemporary Indigenous organizations (see Business Administration)**NAST – POST 200 – Politics and Indigenous communities**

The course will focus both on the traditional political culture of Indigenous Peoples and on the political structures of colonialism (Indian Acts, Treaties, etc.) viewed from legal and historical perspectives. Contemporary analysis will treat Indigenous self-government including models of development, cultural and ideological foundations, government policy and implementation strategies. Prerequisite: NAST 100 or POST 100.

NAST – CAST – ERST – GEOG 204 – Canada, the land (see Canadian Studies)**NAST 211 – Introduction to Indigenous theatre**

The course engages Indigenous identity through the Performing Arts by exploring traditional cultural resources expressed in the theory and practice of contemporary Indigenous artists (playwrights, actors, directors, singers and choreographers). Students will learn to expand vocal and physical awareness through sensory exercises, improvisation and texts, culminating in a final performance.

NAST – ERSC 215H – Environmental assessment techniques for Indigenous 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. Prerequisite: NAST – ERST 260. Not open to students in a B.Sc. program.

NAST 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 issues.

NAST 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.

NAST – CUST 230 – An introduction to the key concepts and issues in post-colonial theory

The course focusses on theories of hybrid identity, resistance and agency within a contemporary Indigenous context specifically as they apply to debates on essentialism, identity politics and cultural appropriation. Prerequisite: NAST 100 or Cultural Studies 100 or permission of the instructor

NAST – ANTH – CAST 253 – Aboriginal art of North America (see Anthropology)**NAST – CAST – HIST 255 – History of the Indians of Canada**

A study of Indigenous 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 Indigenous political movement.

NAST – ERST 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: NAST 100 or both ERST 100 and any other Indigenous Studies course)

NAST – CAST – HIST 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: NAST 100 or CAST 100 or HIST 100.

NAST – ADMN 272 – Organizational behaviour in contemporary Aboriginal organizations
(see Business Administration)**NAST 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.

NAST – CAST 285 – Indigenous People and the North

A study of political, economic, social and cultural factors which affect the Indigenous 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.

NAST 290 – Indigenous economic development

Provides an overview of the economic development process with specific reference to Indigenous 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. Prerequisite: ECON 101H and 102H or NAST 150H and 151H.

NAST – POST 302 – Indigenous governance

This course examines and analyses the development of Indigenous forms of governance in Canada with a particular emphasis upon cultural, philosophical and political foundations. Prerequisite: NAST 100. Excludes NAST 300.

NAST – IDST 305 – Indigenous and international community development

A study of various approaches to community development in Indigenous 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: NAST 100 or IDST 100.

NAST 310 – Indigenous culture and community

A study of cultural continuity, change and revitalization in Indigenous communities in Canada. The dynamic nature of cultural adaptation and the significance of tribal language, spirituality and social responsibilities will be emphasized. Prerequisite: NAST 100 and one other Indigenous Studies course.

NAST 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)

NAST 320 – Urbanization and the Indigenous Peoples

An analysis of migration, adjustment and integration of Indigenous People into urban areas, examining various issues including: identity, urban Indigenous self-government, crime, justice and corrections, urban youth gangs, the development of urban Indigenous organizations, as well as cultural interaction between Indigenous and white society in rural Indigenous communities. Prerequisite: NAST 100.

NAST 330 – Education and Indigenous Peoples

The course will examine issues pertaining to the development of an appropriate educational system for Indigenous People including Indigenous control of Indigenous education, learning theories, Indigenous culture, values and identity, teaching and learning styles, pedagogy and curriculum planning. Prerequisite: NAST 100.

NAST 340 – Law and Indigenous Peoples

A practical introduction to the emerging and quickly expanding field of Indigenous 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: NAST 100.

NAST – CAST – ENGL 3481H– Studies in Indigenous Fiction (see English Literature)**NAST – CAST – ENGL 3483H– Studies in Indigenous poetry** (see English Literature)**NAST – WMST 350 – Indigenous women**

This course examines the experience of Indigenous women in Canada today with respect to cultural expression in the arts, education, work, family, health, politics and the law. Contemporary issues facing Indigenous women will be examined. Women's Symposium included. Prerequisite: NAST 100 or WMST 100

NAST – ERST 363 – Issues in Indigenous environmental studies

This course explores contemporary environmental issues and solutions as defined by Indigenous Peoples at the community, nation and international levels. Topics may vary from year to year based on student interest and current issues facing Indigenous Peoples. Prerequisite: ERST – NAST 260

NAST 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. Prerequisite: NAST 280 or permission of the instructor.

NAST 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 Indigenous Studies. The ideological base of participatory and action research is examined along with case studies exemplifying alternative methodologies. Prerequisite: NAST 100 and 200.

NAST 383H – Community-based oral history methods

Emphasis is upon the cultural and strategic approaches which enhance oral history methods in Indigenous communities. Topics include research design, community rapport, administration, community-based data collection and analysis. A small-scale field project will be developed. Prerequisite: NAST 100 and 200.

NAST 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). Prerequisite: 10 credits including NAST 100 and 200 and a B average.

NAST 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: 10 credits including NAST 100 and 200 and a B average.

NAST 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: 10 credits including NAST 100 and 200 and a B average.

NAST 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: 10 credits including NAST 100 and 200 and a B average.

NAST 3951 – Special topic: Images in contemporary media

Focussing 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. NAST 100 or permission of the Instructor

NAST 3952H – Special topic: Indigenous contemporary dance

Indigenous dance falls into four broad categories: ceremonial dance, social dance, traditional dance in the arena and staged for theatrical presentation, and original choreography. The dance of the Intertribal Pow-wow will be studied by examining the cultures in which the dances originated and exploring how the dances have evolved over time. Workshop in Nozhem, FPSP. Prerequisite: NAST 100 or as a co-requisite

NAST 3953H – Special topic: Indigenous contemporary repertory

Learn and create with a choreographer new or reconstructed dance works drawing creatively from the movement vocabulary of Native American dance styles. This vocabulary will be fused with historic and post-modern dance forms now called "Native Modern Dance." Dramatic themes are drawn from the oral tradition. Physical/technical conditioning stressed. Prerequisite: NAST 3952 (2004-05) or co-requisite: NAST 3952H.

NAST 3954H – Special topic: Indigenous masked dance and storytelling

Provides an opportunity to investigate the art and skill of storytelling, mask and mask-making in relation to storytelling. Exploring the "roots of theatre" students will discover the need for communication, verbal and non-verbal, using movement and physical objects. Indigenous North American masking will be considered, masks made and mask/story scenes developed. Prerequisite or co-requisite: NAST 3952H.

NAST 3955 – Special topic: The residential school legacy

Students will obtain a comprehensive appreciation of the impacts of education policies on the lives of Indigenous Peoples across Canada. Residential schools survivors and families will share their experiences growing up in such facilities. Indigenous claims and Federal and Church responses to them will be reviewed and methodologies explored. Prerequisite: NAST 100 or permission of the instructor.

NAST – CAST – ENGL – WMST 397H – Writing women's stories – Native women's work
(see Canadian Studies)**NAST – CAST – ANTH 398H – Ethnographic representations of Canadian Aboriginal People**
(see Anthropology)**NAST – HIST 400 – Research seminar in Indigenous history**

The seminar will focus on ethnohistorical method and Indigenous historiography. The course and course work is structured to give students experience in all the elements involved in producing a piece of professional historical research. Prerequisite: NAST 100, CAST 100 or HIST 100.

NAST 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: 10 credits including NAST 100 and 200 and a B average and NAST 381H and 383H.

NAST 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. Prerequisite: 10 credits including NAST 100

NAST 420 – Indigenous Studies Honours collegium

This seminar concentrates upon a reading of texts considered basic to the definition of contemporary Indigenous realities. It will explore issues surrounding history, identity, development, epistemology, ontology, using a multi-disciplinary model of inquiry and analysis. Prerequisite: 10 credits including NAST 100

NAST – CAST – HIST 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 Indigenous Peoples. Prerequisite: 10 credits including NAST 100

NAST 430 – Critical theory and Indigenous Studies

A seminar on the relevance of contemporary western social and political thought to Indigenous issues. The course will apply a broad range of theoretical approaches to develop understandings and insights of Indigenous and western societies and the specific character of the interactions between them. Prerequisite: 10 credits including NAST 100

NAST – ANTH 477H – Anthropology of colonialism (see Anthropology)

NAST 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: NAST 280 and 380 or permission of the instructor.

NAST 482 – Indigenous 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. (offered only in Thailand)

NAST 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: 10 credits including NAST 100.

NAST 4951 – Special topics: Indigenous Peoples and social movements: relationships in struggle

Explores types of relationships that Indigenous Peoples are pursuing with social movements in Canada and internationally. Students will explore theories of social movement building as they relate to alliances and coalitions with Indigenous Peoples. Theory will be grounded in experience of relationship-building. There is also opportunity to do a practicum. Prerequisite: 10 credits including NAST 100 or permission of the instructor.

NAST 4952 – Special topic: Research seminar on the Indigenous histories of Southern Ontario

Researching sources relevant to Haudenosaunee, Anishnaabe and non-Indigenous peoples, students will explore historical perspectives from Creation to the present. The course incorporates oral and written history and reviews historical theory. Students will obtain an appreciation for the Peoples who have always lived in this territory and a broader understanding of historical methodologies. Prerequisite: 10 credits including NAST 100 or permission of the instructor.

NAST – ERST 497H – Sustainable Indigenous communities

Concepts and cases of Indigenous community sustainability are examined in terms of economics, health, social, environmental, cultural and spiritual values. Community-based and western science-based knowledge are combined. Prerequisite: NAST – ERST 363 or ERSC 316H.

International Development Studies

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Professor and Chair of the Program

W. Lem, M.A., Ph.D. (Toronto)

Professors

C. V. Huxley, B.A. (York, England), M.A. (Simon Fraser) (*on leave Winter term*), Ph.D. (Toronto);

D. R. Morrison, M.A. (Saskatchewan), D.Phil. (Sussex)

Associate Professor

J. Solway, B.A. (Oakland), M.A., Ph.D. (Toronto) (*on leave Fall term*)

Assistant Professor

C. Beyers, B.A. (Trent), M.A. (York), D.Phil. (Sussex); **D. Hall**, B.A. (Trent), M.A. (York), Ph.D. (Cornell)

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. *Indigenous Studies:* **D. N. McCaskill**. *Women's Studies:* **C. O'Manique**

Adjunct Faculty

B. Beck, B.A. (Chicago), B.Litt. (Oxford), D.Phil. (Oxford); **J. Clapp**, B.A. (Michigan), M.Sc., Ph.D.

(London); **E. Helleiner**, B.A. (Toronto), Ph.D. (London); **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)

Professor Emeritus

J. Hillman, M.A. (Oxford), Ph.D. (SUNY, Buffalo)

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, Indigenous Studies, Politics), Sociology and Women's Studies.

Notes

- 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- There is no single-major General program in International Development Studies.
- The new degree requirements indicated below apply to all students entering Trent in the 2005–2006 academic year or later. Students who entered Trent before the 2005–2006 academic year may graduate under these requirements if they so choose.
- Students in the joint-major program in Anthropology and International Development Studies may substitute IDST – ANTH 221 for one of ANTH 212, 231 or 240 in their Anthropology requirements.
- Students may count no more than 1 credit of International Development Studies reading courses (390, 391H, 392H, 490, 491H, 492H) toward their International Development Studies degree requirements.
- Students are strongly encouraged to include ECON 101H and 102H and SOCI 480 in their choice of elective courses.

A		B	C	D
221	385H	2401H	390	370
225	387	2402H	391H	371H
301	388	2471H	392H	372H
310	389	2472H	401	
311H	398H	295H	402D	
312H	400	304	490	
313	411H	305	491H	
322H	422	306	492H	
329H	423H	331H		
350H	424	332		
351H	425H	333H		
360	475H	3401H		
377	476H	3402H		
378	4971H	375		
379	4972H	407		
380		427H		
		461H		
		470H		
		482		

The single-major Honours program. At least 10 credits in International Development Studies.

The program must include:

- IDST 100 and 200
- either IDST 310 or both IDST – ECON 331H and 333H
- 1 400-level credit from Category A
- 1 additional 400-level credit from Category A, B or C.
- 5 additional credits, of which no more than 1 credit from Category B and no more than 1 credit from Category D

The joint-major Honours program. At least 7 credits in International Development Studies, including:

- IDST 100 and 200
- 1 400-level credit from Category A
- 4 additional credits, of which no more than 1 credit from Category B and no more than 1 credit from Category D.

The joint-major General program. At least 5 credits in International Development Studies, including:

- IDST 100 and 200
- at least 1 credit from category A at the 300-level or higher
- 2 additional credits, of which no more than 1 credit from Category B and no more than 1 credit from Category D

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:

- HSST 250, IDST 380D, 387, 388 and IDST – ANTH 389.

The Ghana program consists of the following courses:

- IDST 378, 379 and 380D, IDST – ANTH 377.

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

IDST 100 – Human inequality in global perspective

An introduction to the basic ideas and perspectives of development analysis including issues of economic globalization, food and agriculture, gender, the environment, urbanization, industrialization, and resistance. These issues are examined from comparative and historical perspectives with illustrations from widely differing societies. Concludes with an in-depth study of Thailand.

IDST 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. Prerequisite: IDST 100 or departmental permission.

IDST – WMST 210H – Women, colonialism and imperialism (see Women's Studies)

IDST – ANTH 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: IDST 100 or ANTH 100 or permission of the instructor.

IDST – WMST 225 – Women, gender and development (see Women's Studies)

IDST – HIST 2401H – The emergence of modern Africa before 1880 (see History)

IDST – HIST 2402H – The emergence of modern Africa since 1880 (see History)

IDST – HIST 247 – Introduction to Latin America, 1500 – 1990 (see History)

IDST – ANTH 301 – African culture and society (see Anthropology)

IDST – ANTH 304 – Latin American culture and society (see Anthropology)

IDST – NAST 305 – Aboriginal community development (see Indigenous Studies)

IDST 310 – International development studies in an economic context

An examination of the economic dimensions of international development issues. Prerequisite: IDST 100. Open to second year students.

IDST 311H – 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. Prerequisite: IDST 200 or permission of the instructor.

IDST – SOCI 312H – 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: IDST 200 or SOCI 210 or permission of the instructor.

IDST 313 – 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. Prerequisite: IDST 100 or permission of the instructor.

IDST – POST 322H – Global political economy

An examination of the historical development of the global political economy and of key debates in the field. The course focusses on the ideas that underpin different political-economic systems, the relationship between domestic and international political economy, finance and trade, and the political economy of warfare. Prerequisite: IDST 200 or POST 220 or permission of the instructor.

IDST – POST 329H – Causes of war (see Politics)**IDST – ECON 331H – Economics of developing countries (see Economics)****IDST – CUST 332 – Media and development (see Cultural Studies)****IDST – ECON 333H – The economics of global interdependence (see Economics)****IDST – POST 350H – Political Economy of Japan (see Politics)****IDST – POST 351H – Political Economy of China (see Politics)****IDST – ERST 360 – POST – Environment and development (see Environmental & Resource Science/Studies)****IDST 370, 371H, 372H – 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. 204). Prerequisite: at least 9 credits with a cumulative average of at least 75%.

IDST – HIST 375 – The history of Eastern Asia, 1600 – present (see History)**IDST – ANTH 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)

IDST 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)

IDST 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)

IDST 380D – Community development

Theory and practice of community development, with an extensive field placement. (offered only in Ecuador and Ghana)

IDST 385H – Field course

An examination of the development experiences and strategies in a Caribbean country. Jamaica will be the focus this year. 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.

IDST 387 – Introduction to Quichua language and culture

Prerequisite: HSST 250 or equivalent. (offered only in Ecuador)

IDST 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)

IDST – ANTH 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)

IDST 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. Prerequisite: Permission of the chair of the program and the instructor concerned.

IDST 398H – Global institutions and development

Examines the historical, contemporary and possible future roles of global multilateral institutions in international development. Explores these roles with reference to the activities of global institutions relating issues such as peace and security, labour and migration, international finance and trade, food and health, gender, and the environment. Prerequisite: IDST 100 or permission of the instructor.

IDST – HIST 3401H – Southern Africa in the 19th century (see History)**IDST – HIST 3402H – Southern Africa in the 20th century** (see History)**IDST 400 – Advanced topics in development theory and research**

Critical perspectives on selected issues in the field of development. Prerequisite: IDST 200 or permission of the instructor. Open only to students in the fourth year of an Honours degree.

IDST 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.

IDST – ANTH 407 – Politics, economy and culture (see Anthropology)**IDST 411H – Capitalism**

An advanced introduction to debates over the origins, nature, and spread of capitalism. The class highlights capitalism's relationship to development, the environment, gender, identity and politics. Prerequisite: International Development 200 or permission of the instructor. Open only to students in the fourth year of an Honours degree. Excludes: IDST 400 (to 2005–2006).

IDST 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. Prerequisite: IDST 200. Permission of the instructor or chair required before registration. Enrolment limit of 14.

IDST – POST 423H – 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. Prerequisite: IDST 200, POST 220 or permission of the instructor.

IDST – CAST – POST 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. Prerequisite: one of IDST 200, CAST – ERST – GEOG 204, POST 220 or permission of the instructor. Open only to students in fourth year. Excludes 424H.

IDST – POST 425H – 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: IDST – POST 322H or permission of the instructor.

IDST – POST 427H – Democracy and the global order (see Politics))**IDST – POST – ERST 461H – Global environmental policy** (see Environmental & Resource Science/Studies)**IDST – SOCI 470H – 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. Prerequisite: SOCI 210 or IDST 200 or permission of the instructor.

IDST – ANTH 475H – 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: ANTH 200 or IDST 200 or permission of the instructor. Open only to students in the fourth year of an Honours degree.

IDST – ANTH 476H – 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: IDST 200 or ANTH 200 or by permission of the instructor.

IDST 490, 491H, 492H – Reading courses in international development

Open to students in the fourth year of the Honours program in International Development Studies. Prerequisite: Permission of the chair of the program and the instructor concerned.

IDST – ANTH 4971H – 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: IDST 200 or ANTH 200 or permission of the instructor.

IDST – ANTH 4972H – 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: IDST 200 or ANTH 200 or permission of the instructor.

Latin

See Ancient History & Classics

Mathematics

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Chair of the Department

To be named

Professors

E. A. Maxwell, M.Sc., Ph.D. (Toronto); **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); **W. Feng**, M.Sc. (Shaanxi), Ph.D. (Glasgow); **R. Yassawi**, B.Sc. (London School of Economics), M.Sc., Ph.D. (McGill)

Assistant Professors

M. Boué, B.Sc. (ITAM), M.Sc., Ph.D. (Brown); **M. Tanase**, B.Sc., M.Sc. (Bucharest, Romania), Ph.D. (McMaster); **X. Li**, B.Sc., M.Sc. (Jiaotong, Xi'an, China), Ph.D. (Western); **M. Pivato**, B.Sc. (Alberta), Ph.D. (Toronto)

Lecturers

W. Morrison, B.Sc. (Trent), M.Sc. (Toronto); **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)

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.
- 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 had at least 5 credits in Mathematics, excluding MATH 105H, 280 and 150.
- 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- MATH 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: MATH 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		B		C	
Analysis and Topology		Algebra, Geometry, and Discrete Math		Modelling and Statistics	
205H	406H	220H	415H	155H	351H
207H	407H	226H	416H	205H	356H3
305H	436H	260	426H	207H	361H
307H	437H	322	432H	256H	412H
308H	471H	326H	461H	305H	413H
309H	472H	330	462H	308H	456H
310H		335H		311H	457H

- The following courses do not fulfil a category requirement: MATH 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:

- MATH 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:

- MATH 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:

- MATH 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:

- MATH 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, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

MATH 105H – 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 12U mathematics course. Not available to students enrolled in or with credit for MATH 110. Not for credit towards a major in Mathematics.

MATH 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 Grade 12U Calculus with at least 60%.

MATH 135H – Linear algebra I: Matrix algebra

Vectors, systems of linear equations, matrices, determinants, linear transformations, eigenvalues and eigenvectors. Prerequisite: A Grade 12U mathematics course with at least 60%. Excludes MATH 130, 225 and 251H.

MATH 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 MATH 110 or 256H.

MATH 155H – Introduction to probability

Probability, random variables, probability distributions. Co-requisite: MATH 105H or MATH 110 taken previously or concurrently.

MATH 201H – Calculus II: Calculus of several variables

Multivariable functions, curves and surfaces in two and three dimensions. Partial differentiation and applications. Multiple integrals. Prerequisite: MATH 110. Pre- or co-requisite: Grade 12U Algebra, Geometry and Discrete Mathematics or (strongly recommended) MATH 135H. Excludes MATH 200.

MATH 202H – 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: MATH 201H. Excludes MATH 200.

MATH-PHYS 205H – Ordinary differential equations

First order equations; qualitative and numerical methods. Second order linear equations. Linear systems. Applications to physical and biological models. Laplace transforms. Prerequisite: MATH 110. Co-requisite: MATH 201H and 202H. Recommended: MATH 130 or 135H.

MATH-COSC 207H – Introduction to numerical and computational methods

Error analysis, non-linear equations, linear systems, interpolation methods, numerical differentiation and integration and initial value problems. Prerequisite: MATH 105H or 110.

MATH 220H – Introduction to pure mathematics

Intended for math majors in their first/second year, this course introduces concepts/methods that are essential for all advanced courses in pure mathematics. Logic, abstraction, proof techniques. Basic combinatorics. Sets, functions, (in/sur/bi)jections. Cantor's transfinite arithmetic. Number theory: divisibility, prime factorization, modular arithmetic. Optional: basic group theory and topology. Corequisite: MATH 110 and 135H.

MATH 226H – Geometry I: Euclidean geometry

Elements of Euclidean geometry stressing links to modern mathematical methods. Geometric transformations and symmetry. Recommended for Education students. Prerequisite: Either MATH 105H or 110 (with Grade 12U Algebra/Geometry recommended) or MATH 135H.

MATH 235H – 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. Prerequisite: MATH 135H. Excludes MATH 130.

MATH 256H – 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: MATH 155H. Excludes MATH 355.

MATH – COSC 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: MATH 110, 130 or 135H or COSC 102H together with one Grade 12U credit in Mathematics. Recommended: Grade 12U Finite Mathematics.

MATH 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. Excludes MATH 110 or 135H or MATH – COSC 260 or their equivalents; does not count for credit towards any major in Mathematics; does not fulfil the Mathematics requirement for the B.Sc. degree. Normally open only to students who are in the Concurrent or Consecutive Education programs or who are pursuing the Emphasis in Teacher Education, but limited spaces may be available for non Teacher Education students. Permission of the instructor required.

MATH-PHYS 305H – Partial differential equations

An introduction to methods for the solution of partial differential equations. Fourier analysis. Prerequisite: MATH 205H. Co-requisite: MATH 201H. Strongly recommended: MATH 135H.

MATH 307H – Complex analysis

Functions of a complex variable, analytic functions, complex integrals, Cauchy integral theorems, Taylor series, Laurent series, residue calculus. Co-requisite: MATH 200 or 201H and MATH 202H. Excludes MATH 306.

MATH – PHYS 308H – 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: MATH – PHYS 205H.

MATH 309H – Analysis I: Introduction to analysis

The real number system. Limits. Continuity. Differentiability. Mean-value theorem. Convergence of sequences and series. Uniform convergence. Prerequisite: MATH 110. Co-requisite: MATH 201H and 220H or permission of the instructor. Excludes MATH 206H.

MATH 310H – Topology I: Metric spaces

Limits and continuity. Completeness, compactness, the Heine-Borel theorem. Connectedness. Prerequisite: MATH 206H or 309H. Co-requisite: MATH 220H.

MATH – PHYS 313H – Classical mechanics (see Physics & Astronomy)**MATH – PHYS 314H – Advanced classical mechanics** (see Physics & Astronomy)**MATH 322 – Number theory and related topics in algebra and analysis**

Prime factorization and divisibility (greatest common divisors, lowest common multiples, the Euclidean algorithm). Modular arithmetic (Fermat's Little Theorem, Euler's Theorem, Wilson's Theorem, Chinese Remainder Theorem, Lucas' theorem). Diophantine equations. Continued fraction expansions. Applications to cryptography (RSA cryptosystems). Prerequisite: MATH 110, and MATH 130 or 235H. Co-requisite: MATH 220H.

MATH 326H – Geometry II: Projective and non-Euclidean geometries

Elements of projective and non-Euclidean geometry, including an introduction to axiomatic systems. Prerequisite: MATH 135H or permission of the instructor.

MATH 330 – Algebra III: Groups, rings and fields

An introduction to abstract algebraic structures. Corequisite: MATH 220H and 235H or permission of the instructor. Recommended: experience with proofs and mathematical abstraction.

MATH – COSC 335H – Linear programming

Introduction to the concepts, techniques and applications of linear programming and discrete optimization. Topics include the simplex method, duality, game theory and integer programming. Prerequisite: MATH 135H.

MATH 351H – Mathematical finance

Introduction to mathematical theory and computational techniques for pricing financial derivative contracts: forwards, futures and options. Topics include: hedging and risk management, arbitrage, European and American options, bonds and interest rate derivatives, stochastic calculus, binomial and Black-Scholes models, numerical methods. Prerequisite: MATH 155H and MATH 205H.

MATH 357H – 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: MATH 155H.

MATH 361H – Discrete optimization

Introduction to the concepts, techniques and applications of discrete optimization. Topics include transportation problems, assignment problems, matchings in graphs, network flow theory and combinatorial optimization. Prerequisite: MATH 135H and MATH – COSC 260.

MATH 380 – History of mathematics

A study of the major currents of mathematical thought from ancient to modern times. Prerequisite: MATH 110 and MATH 235H or MATH 110 and permission of the instructor. Second-year students wishing to take the course must have permission of the instructor.

MATH 390 – Reading-seminar course

Details may be obtained by consulting the department.

MATH 391H, 392H, 393H, 394H – Reading-seminar courses

Details may be obtained by consulting the department.

MATH 406H – Analysis III: Measure and integration

Riemann and Lebesgue measure, integration. Prerequisite: MATH 310H

MATH 407H – Analysis IV: Topics in complex analysis

Prerequisite: MATH 307H.

MATH 412H – 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, discrete systems and numerical methods along with computer aids will be utilized. Prerequisite: MATH – PHYS 205H. Excludes MATH 411.

MATH 413H – Mathematical modeling II

This course further develops the mathematical modelling techniques introduced in MATH 412H. Topics include dimensional analysis and partial differential equation models such as diffusion processes, wave motions and fluid flows. Prerequisite: MATH 412H and one of MATH – PHYS 305H, or MATH – PHYS 308H. Excludes MATH 411.

MATH – COSC 415H – Mathematical logic

An introduction to the syntax and semantics of propositional and first-order logics through the Soundness, Completeness and Compactness Theorems. Prerequisite: MATH – COSC 260 or MATH 330 or permission of the instructor.

MATH – COSC 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: COSC 305H or MATH 330 or MATH – COSC 415H or permission of the instructor.

MATH 426H – Topics in geometry**MATH 4261H – Differential geometry**

Curves and surfaces in three-dimensional Euclidean space; smooth submanifolds of N -dimensional space. Tangent spaces and the tangent bundle. Smooth transformations; derivatives as linear transformations of the tangent bundle. Smooth vector fields and flows (smooth dynamical systems). Time permitting: (pseudo) Riemannian geometry, tensor calculus; applications to mathematical physics. Introduction to Lie theory. Prerequisite: MATH 200 or 202H and MATH 235H. Corequisite: MATH 310H.

MATH 4262H – Algebraic geometry

Geometry of algebraic varieties over the complex numbers and over abstract fields. Polynomial rings, commutative ideal theory and the Zariski topology. Hilbert's Nullstellensatz. Prerequisite: MATH 235H. Corequisite: MATH 330.

MATH 4263H – Projective geometry

Projective lines and projective planes, and their combinatorial properties. Collineations, transitivity, Desargue's Theorem. Coordinates and ternary rings. Constructing projective planes using affine planes, skew fields and free completions. Prerequisite: MATH 225 or 226H or 326H.

MATH 431H – Algebra IV: Galois theory

Extension fields and Galois groups. Prerequisite: MATH 235H.

MATH 432H – Algebra V: Topics in algebra

Prerequisite: MATH 330.

MATH 436H – Topology II: General topology

Prerequisite: MATH 310H.

MATH 437H – Topology III: Topics in topology

Prerequisite: MATH 310H.

MATH 456H – Topics in statistics

Prerequisite: MATH 356H.

MATH 457H – Topics in probability: A second course in stochastic processes

Prerequisite: MATH 357H.

MATH 461H – 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: MATH – COSC 260 or permission of the instructor. Excludes MATH 460.

MATH 462H – Introduction to combinatorics

An introduction to combinatorics. The topics include counting techniques, generating functions and block design. Prerequisite: MATH – COSC 260. Recommended: MATH 330. Excludes MATH 460.

MATH 471H – 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: MATH 310H or permission of the instructor. Excludes MATH 470.

MATH 472H – Fractals and complex dynamics

Discrete two-dimensional linear systems, The stable and unstable manifolds. Symbolic dynamics. The horseshoe map, hyperbolicity. The Poincare-Bendixson Theorem. Complex dynamics, Julia Sets, Mandelbrot Sets. Prerequisite: MATH 471H or permission of the instructor. Excludes MATH 470.

MATH 490 – Reading-seminar course

Details may be obtained by consulting the department.

MATH 491H, 492H, 493H, 494H – Reading-seminar courses

Details may be obtained by consulting the department.

MATH 495 – Special topics

Details may be obtained by consulting the department.

Modern Languages & Literatures

Telephone: (705) 748-1011 ext. 1394

E-mail: modernlang@trentu.caWeb: www.trentu.ca/modernlanguages**Chair of the Department****R. Hagman**, B.A., Ph.D. (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.

Professor**R. Hagman**, B.A., Ph.D. (Columbia)**MLAL 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.

MLAL – ANTH 201H – 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: MLAL 101. Excludes ANTH 432H.

MLAL – ANTH 202H – 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: MLAL 101. Excludes ANTH 330.

MLAL – ANTH 302H – 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: MLAL 101.

MLAL – ANTH 303H – 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: MLAL 101.

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) (*in Nantes 2006–2007*); **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.
- 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 FREN 325 or 383 in their fourth year as fourth-year courses (FREN 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- FREN 100 and 105 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:

- FREN 110 and 245
- FREN 205 or 215

- at least 1 of FREN 317, 318, 319 or 320
- FREN 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:

- FREN 110 and 245
- FREN 205 or 215
- at least 1 of FREN 317, 318, 319 or 320
- FREN 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:

- FREN 110 and 245
- FREN 205 or 215
- at least 1 of FREN 317, 318, 319 or 320
- FREN 325 or 383
- 1 additional credit

The joint-major General program. At least 5 credits in French Studies, including:

- FREN 110 and 245
- FREN 205 or 215
- at least 1 of FREN 317, 318, 319 or 320
- FREN 325 or 383

SPECIALIZATION IN QUÉBEC STUDIES

A Specialization in Québec Studies is available to students with three or more Québec credits (FREN 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 FREN 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, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

FREN 100 – Elementary French

An intensive course in oral and written French for students who do not have 4U/M French or its equivalent. This course will rely on textual as well as on audio-visual and electronic support material. Not credited toward French Major requirements. (may not be taken concurrently with or subsequent to any other French course)

FREN 1001H – Introduction to French I

An intensive beginners' course in oral and written French for students who have limited or no knowledge of French. This course relies on textual as well as on audio-visual and electronic support material. (offered only in Oshawa)

FREN 1002H – Introduction to French II

An intensive course in oral and written French for students who have completed FREN 1001H. This course relies on textual as well as on audio-visual and electronic support material. Prerequisite: FREN 1001H. (offered only in Oshawa)

FREN 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. Prerequisite: French 4U/M. Not credited towards French major requirements. (May not be taken concurrently with or following FREN 110) Students judged by the instructor to possess native or native-like control of oral French may not receive credit for this course. Excludes FREN 101H and FREN 201H.

FREN 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. Prerequisite: FREN 105.

FREN 205 – Written French

Study and practice of written French through grammar and comprehension exercises as well as composition writing. Credited toward French major requirements. Prerequisite: a placement interview or a mark of 60% or better in FREN 105 or 110. Excludes FREN 103H and 203H.

FREN 215 – Texte et contexte linguistique

Thorough review of grammar from the noun to the tenses with an introduction to French linguistics and literary works. Fundamentals of French phonology (pronunciation and spoken French melody) will be explored to correct mispronunciation. Prerequisite: FREN 110.

FREN 245 – Civilisations française et québécoise

A survey of the social and cultural histories of France and Québec from the seventeenth century to the present. This course is required of all students majoring in French. Prerequisite: FREN 110.

FREN 305 – Traduction

Theory and practice of the techniques of translation. Prerequisite: FREN 110 or 205 or 215

FREN 317 – La vie littéraire française au 17^e siècle

“Le Grand Siècle” and the culmination of Classical Theatre. Study of Baroque and Classicism in theatre, poetry, novels and epistolary art. Pre- or co-requisite: FREN 245

FREN 318 – La vie littéraire française au 18^e 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. Pre- or co-requisite: FREN 245.

FREN 319 – La vie littéraire française au 19^e siècle

Literary life in the 19th century from the Romantic period to the Naturalist project. Pre- or co-requisite: FREN 245.

FREN 320 – La vie littéraire française au 20^e siècle

Modern and contemporary trends in literature: Poetry, novels, theatre. Pre- or co-requisite: FREN 245.

FREN – CAST 325 – Théâtre et poésie du Québec

A survey of the beginnings and evolution of Québec theatre and poetry, concentrating on modern and contemporary works. Pre- or co-requisite: FREN 245.

FREN 331 – La pensée française

Introduction to 18th century French Philosophers. (offered only in Nantes)

FREN 351 – La civilisation française

A survey of the history of France from pre-historical times to the present. (offered only in Nantes)

FREN – CAST 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. Pre- or co-requisite: FREN 245.

FREN 401 – Initiation à la recherche littéraire

Supervised research. Single credit course. 12,000 word thesis. Prerequisite: completion of 5 credits required for the major with a minimum of 60% in each or permission of the department. Excludes FREN 402D. Candidates must submit a written proposal to the chair of French Studies before May 1.

FREN 402D – Recherche littéraire avancée

Supervised research. Double credit course. 20,000-word thesis. Prerequisite: completion of 5 credits required for the major with a minimum of 60% in each or permission of the department. Excludes FREN 401. Candidates must submit a written proposal to the chair of French Studies before May 1.

FREN 415 – Ecrire mais autrement: stylistique de l'altérité.

Introduction to semantics (words into meaning) and stylistics (words into emotion) through 20th century literature. Advanced grammar (French clauses/complex sentences). Prerequisite: completion of 5 credits required for the major with a minimum of 60% in each or permission of the department. Excludes FREN 405.

FREN 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. Prerequisite: completion of 5 credits required for the major with a minimum of 60% in each or permission of the department.

FREN – CAST 426 – Étude approfondie du théâtre et de la poésie du Québec

See FREN 325. Open only to students who have participated in the Year Abroad Program in French during the preceding academic year. Prerequisite: completion of 5 credits required for the major with a minimum of 60% in each or permission of the department. Excludes FREN 325.

FREN 450 – Special topics

Topic for 2006–2007 to be announced. Prerequisite: completion of 5 credits required for the major with a minimum of 60% in each or permission of the department.

FREN 460 – L'écriture de soi au féminin

Étude de l'intimisme dans certains écrits de femmes au 20^e siècle. Prerequisite: completion of 5 credits required for the major with a minimum of 60% in each or permission of the department.

FREN – CAST 483 – Étude approfondie du roman québécois

See FREN 383. Open only to students who have participated in the Year Abroad Program in French during the preceding academic year. Prerequisite: completion of 5 credits required for the major with a minimum of 60% in each or permission of the department. Excludes FREN 383.

FREN 495 – Fureur et merveilles: le surréalisme aux années 1920

This course examines the surrealist movement in its early years. It attempts to show how the movement's poetical program had an impact on the literary field as well as on the political life of the 1920s. Prerequisite: completion of 5 credits required for the major with a minimum of 60% in each or permission of the department.

GERMAN STUDIES SECTION**Associate Professor**

A. A. Krüger, Staatsexamen (München) (*in Freiburg 2006–2007*)

Assistant Professor

R. M. Graves, M.A. (Queen's), Ph.D. (Toronto)

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, Politics, 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 GRMN 302H.
- 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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 Head of German Studies (german@trentu.ca).
- Two half credits in courses taught in English (GRMN 232H, 233H, 240H) may be credited towards the major requirements for German Studies.
- Students in GRMN 100 and 200 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:

- GRMN 100, 200, 302H, 305H and 306H
- 1.5 credits at the 300 level in literature courses
- 1 additional credit

The joint-major General program. At least 5 credits in German Studies, including:

- GRMN 100, 200, 302H, 305H and 306H
- 0.5 credit at the 300 level in a literature course
- 1 additional credit

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 GRMN 105 (or equivalent). Enrolment is limited to seven students from Trent. For further details, please consult the Head of German Studies (german@trentu.ca).

In 2006–2007, 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, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006–2007 including when they will be scheduled.

GRMN 100 – Beginners' German

Designed for students with little or no knowledge of German. This course provides an introduction to spoken and written German through intensive teacher-student interaction and interaction in small groups, as well as an introduction to present-day Germany. Not open to students with 4U German or equivalent.

GRMN 200 – Intermediate German

Intermediate German language course with comprehensive grammar review and intensive language practice. Introduction to German literature and culture in the Winter session.

Prerequisite: GRMN 100, Grade 12 German, 4U German or equivalent. Excludes GRMN 105.

GRMN 220 – Modern German literature in translation

See GRMN 221H and 222H. (offered only in Freiburg)

GRMN 221H – German literature of the 19th century in translation

This is an optional credit for English majors.

GRMN 222H – German literature of the 20th century in translation

This is an optional credit for English majors.

GRMN 231 – German cultural studies

(see GRMN 232H and 233H)

GRMN 232H – German cultural studies 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 note concerning courses taught in English credited towards the major)

GRMN 233H – German cultural studies 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. GRMN 232H desirable. May be counted towards a major in German. (see note concerning courses taught in English credited towards the major)

GRMN 234H German cultural studies I

Taught in German. 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. (offered only in Freiburg)

GRMN 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 note concerning courses taught in English credited towards the major)

GRMN 301H – Intensive German language practice through immersion

(Offered only in Freiburg)

GRMN 302H – Advanced German language I

Written and oral practice. Prerequisite: GRMN 200 or permission of the department. Excludes GRMN 205H.

GRMN 305H – Advanced German language II (business German)

Special aspects of German grammar. Written and oral exercises. Prerequisite: GRMN 302H or permission of department.

GRMN 306H – German literature and thought from Nietzsche to Brecht

Modern writers and events. Pre- or co-requisite: GRMN 302H or permission of the department. Excludes GRMN 206H.

GRMN 310H – 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. Pre- or co-requisite: GRMN 302H or permission of the Head of the German Studies section.

GRMN – WMST 314H – Studies in German Romanticism in the European context: Women writers and German Romanticism

Pre- or co-requisite: GRMN 302H or permission.

GRMN 330H – The German Novelle and Erzählung of the 19th and 20th centuries

Pre- or co-requisite: GRMN 302H or permission of department.

GRMN 390 – Special topics**GRMN 391H – Special topics****GRMN 392H – Special topics****HISPANIC STUDIES SECTION**

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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) (*on leave Winter term*)

Associate Professor

G. D. Aitken, B.A. (Trent), M.A. (Stanford)

Professors Emeriti

R. M. Garrido, Lic.Der., Dr.Der., Dr. Filología (Sevilla), M.A. (Toronto); **J. P. González-Martín**, 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.

Notes

- HSST 100 or 200 is a prerequisite for HSST 250 and 315. However, students with sufficient knowledge of Spanish may be admitted directly into HSST 250 and 315 or they may take civilization and literature courses exclusively. A placement interview is required.
- B (75%) or higher in HSST 100 is a prerequisite for HSST 250.
- 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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 MLAL 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:

- HSST 100 or 200
- HSST 250, 295, 300 and 315
- 5 additional credits

The joint-major Honours program. At least 7 credits in Hispanic Studies, including:

- HSST 100 or 200
- HSST 250, 295, 300 and 315
- 2 additional credits

The single-major General program. At least 6 credits in Hispanic Studies, including:

- HSST 100 or 200
- HSST 250, 295, 300 and 315
- 1 additional credit

The joint-major General program. At least 5 credits in Hispanic Studies, including:

- HSST 100 or 200
- HSST 250, 295, 300 and 315

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 HSST 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/alicante.html

In 2006–2007 the following courses will be offered in the Year Abroad program:

- Language: HSST 250 and 300
- Civilization: HSST 295
- Literature: HSST 311H, 315 and 323H
- Special topics for students who have successfully completed HSST 250 and 315: HSST 4951 and 4952

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006–2007timetable.htm, for information on courses that will be offered in 2006–2007 including when they will be scheduled.

HSST 100 – Beginners' Spanish

An introduction to the Spanish language, with an emphasis on oral Spanish, pronunciation, reading and writing as a preparation for HSST 250 (required course for Spanish majors) and HSST 200.

HSST 1001H – Introduction to Spanish I

An introduction to understanding, speaking, reading and writing designed for students who have limited or no knowledge of the language. The goal of the course is to encourage students to work towards developing control of everyday vocabulary and basic forms and constructions. (offered only in Oshawa)

HSST 1002H – Introduction to Spanish II

Builds on the knowledge gained in HSST 1001H and continues to encourage students to work towards developing control of everyday vocabulary and basic forms and constructions. As in HSST 1001H, the seminar activities stress a communicative approach, which is reinforced through written exercises. Prerequisite: HSST 1001H. (offered only in Oshawa)

HSST 200 – Continuing Spanish

A language course with comprehensive review and practice, designed for students with advanced high-school credits or HSST 100 or other previous exposure to the language. An alternative course in preparation for HSST 250.

HSST 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. Prerequisite: HSST 100 (with 75% or better) or HSST 200 or permission of the instructor.

HSST 295 – Spanish and Spanish-American civilization

Taught in Spanish and English. A study of civilization in the Hispanic world: history, political and economic issues, social development, artistic and cultural manifestations including architecture, literature, painting, film, music and folklore. Prerequisite: HSST 100 or HSST 200 or permission of the instructor. Excludes HSST 310.

HSST 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. Prerequisite: HSST 250 or permission of the instructor.

HSST 311H – Spanish contemporary prose

Prose from the generation of 1898 to our times. Pre- or co-requisite: HSST 315.

HSST 312H – 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. Pre- or co-requisite: HSST 315.

HSST 315 – Introduction to Hispanic literature and culture

An introductory course to the study of Spanish and Spanish-American literatures. A multidisciplinary approach which combines aesthetic, social, political, and historical analysis to gain a better understanding of the literary experience in the Hispanic world. Prerequisite: HSST 250 or permission of the instructor. Excludes HSST 290.

HSST 322H – 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. Pre- or co-requisite: HSST 315.

HSST 323H – Spanish-American prose

A survey of Spanish-American prose with special emphasis on the contemporary period. Pre- or co-requisite: HSST 315.

HSST 326 – The contemporary Latin-American novel: Adventure and commitment

Taught 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.

HSST 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. Pre- or co-requisite: HSST 315.

HSST 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.

HSST 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.

HSST 416H – Medieval Spanish literature

Studies of the Spanish literature from *El Cid* (twelfth century) to *La Celestina* (end of the fifteenth century).

HSST 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. Prerequisite: HSST 323H or permission of the instructor.

HSST 494H – Special topics

Prerequisite: permission of the instructor.

HSST 495H – Advanced Spanish and composition

Development of grammatical and compositional skills to the advanced level where a student has mastery of the various forms of Spanish prose writing. Prerequisite: HSST 300

HSST 496H – Special topics

Prerequisite: permission of the instructor.

HSST 497 – Between fantasy and reality: latest trends in Spanish fiction (1985-2003)

Study of a variety of narrative discourses at work in today's Spanish novel and short fiction. Among the explored modalities will be: lyrical, autofictional, metafictional, expressionistic, fantastic, psychological and historical. Represented writers include Juan Pedro Aparicio, Javier Cercas, Javier Marías, José María Merino, Eloy Tizón, Javier Tomeo and Enrique Vila-Matas. Prerequisite: HSST 311H or permission of the instructor.

Nursing

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Director Trent/Fleming School of Nursing

D. Crooks, R.N., B.Sc.N. (Toronto), M.Sc.N. (University of Western Ontario), D.N.Sc. (State University of New York at Buffalo)

B.Sc.N. Program Co-ordinator (Fleming)

K. A. Hick, R.N., 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); **L.-A. Hagerman**, R.N., M.B.A. (Sarasota), B.Sc.N. (Queen's), Ed.D. (Argosy)

Lecturers

C. Graham, R.N., M.Sc. (Queen's), B.Sc.N. (McMaster); **C. Ross**, R.N., B.Sc.N. (Ryerson), M.N. (Athabasca)

Fleming College Faculty Members

Joan Ayre, R.N., B.Sc.N. (Toronto), M.Ed. (Toronto), M.N. (Toronto); **Beryl Cable-Williams**, R.N., B.N.Sc. (Queen's), M.N. (Dalhousie); **Kim English**, R.N., B.Sc.N. (Ryerson), M.N. (Toronto); **Ann MacLeod**, R.N., B.Sc.N. (McGill), M.P.H. (Michigan); **Winnie Sun**, R.N., B.Sc.N. (Toronto), M.N. (Toronto)

The Trent University/Fleming School of Nursing offers an integrated, collaborative program leading to a Bachelor of Science in Nursing (B.Sc.N.) degree. Students entering with appropriate high school credits will complete the program in 4 years. Students with previous degrees or sufficient University courses or equivalents may enter the compressed stream and complete the program in three years. Opportunities for practical application of theoretical principles are offered throughout the program. Each year of the program has a specific focus for theory and practice around wellness, illness, community and specialized and complex care issues. Clinical placements are selected to allow students exposure to a variety of care delivery environments as they learn the complexities in caring for individuals, families, groups and communities. Students have the opportunity to select specialized placements and develop a specific focus with aboriginal communities, hospice, women's health, as examples, and are involved in care across the lifespan. Theoretical and practicum opportunities demand a holistic approach to care delivery, recognizing that the nurse must assess the needs of the client; plan, provide and evaluate care; and advocate for quality health care for each client group.

Various teaching methods are used in the program, including lectures, labs, seminars case studies and simulations.

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 and consultation with School of Nursing academic advisors.

Admission Requirements

A high school diploma including six Ontario 4U or 4M credits (or equivalent) including English (ENG4U minimum 60% required) plus one 4U credit in each of Biology, Chemistry and Mathematics are required for admission. Normally, students must possess a minimum average of 70% to be considered for acceptance into the program.

In addition, all successful applicants will be required to obtain and submit the following documentation prior to the start of classes:

- 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

Institution: Trent University

Program Code: RCN

Program Title: Nursing (Joint Trent-Fleming B.Sc.N. program)

The Trent/Fleming School of Nursing offers a three-year compressed stream for qualified students who have previously completed some or all of a post-secondary degree with a minimum average of 70%. Students intending to enter the compressed stream should consult with the School of Nursing for admission assessment and course planning.

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 same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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 or designated science courses.
- A cumulative minimum average of 65% is required for the B.Sc.N. degree.
- Students must successfully complete all prerequisite courses in a given year before proceeding to the next year of the program.
- Students must consult the Program Administrative Assistant before applying for electives or minor degree requirements. It is the students' responsibility to plan their program carefully to ensure they meet prerequisites for all courses.
- All degree requirements must be met within seven years of admission to the program.
- Nursing practice experiences and lab experiences are graded on a pass/fail basis as one or the only component of the course requirements. Students must obtain a pass in the clinical and lab component in order to pass the entire course.
- Students will be allowed only one Nursing theory grade under 60% over the duration of the program. A second grade under 60% in a Nursing theory course (either a repeated or different theory course) will result in withdrawal from the B.Sc.N. program but not from the university.
- Students will be allowed one failed grade (F) in a Nursing practice course over the duration of the program. A second grade failed grade in a Nursing practice course (either a repeated or different practice course) will result in withdrawal from the B.Sc.N. program but not from the university.
- Students must meet all competencies outlined in theory and practice courses to meet standards for entry to practice. Attendance in class, lab and clinical is mandatory.
- Unsafe nursing practice (for example, lack of preparation for clinical practice; errors in care or medication; inappropriate behaviour, communication or touching), is considered to be professional misconduct. Penalties may include temporary or permanent suspension from a course, or suspension from the program. Suspension from a course will remain in force until the case is reviewed with the Director of the School of Nursing. 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 School of Nursing to confirm their course of study.
- There is no minor in Nursing.

The program consists of 20 credits. At least 11 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.

- NURS 100, 101H, 102H
- BIOL 105, CHEM 155H, PSYC 101
- 1 credit from ANTH 100, NAST 100, SOCI 100, or WMST 100

Year 2

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.

- NURS 200H, 201H, 202H, 203H, 204H
- BIOL 213H, 214H
- PHIL 234 or PHIL 238H and 239H
- 0.5 elective credit at the 100- or 200-level

Year 3

Students 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.

- NURS 300H, 301H, 302H, 303H, 304H
- at least one of NURS 305 or 395H or PSYC 215
- PSYC 384H
- 1 elective credit at the 200 or 300-level

Year 4

Students are encouraged 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.

- NURS 400H, 402H, 404H, 403D
- 0.5 credit from NURS 410H, 411H, 412H, 414H
- 0.5 elective credit at the 300-level in the Fall session

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

NURS 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.

NURS 101H – 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.

NURS 102H – 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.

NURS 200H – 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: 60% in NURS 100, 102H. Co-requisite: NURS 204H.

NURS 201H – 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: 60% in NURS 100, 102H. Co-requisite: NURS 202H.

NURS 202H – 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: 60% in NURS 100, 102H. Co-requisite: NURS 201H.

NURS 203H – 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: BIOL 105, CHEM 155H, 60% in NURS 100, 102H. Co- or prerequisite: BIOL 213H, 214H.

NURS 204H – Nursing practice related to the illness experience

In this practice course, the focus is on the care of individuals who have been hospitalized.

Laboratory exercises will support nursing practice in medical and surgical units in institutions.

Prerequisite: 60% in NURS 100, 102H. Co-requisite: NURS 200H.

NURS 300H – 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: 60% in all required second-year Nursing courses. Co-requisite: NURS 302H.

NURS 301H – 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: 60% in all required second year Nursing courses. Co-requisite: NURS 303H.

NURS 302H – 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: 60% in all required second year Nursing courses. Co-requisite: NURS 300H.

NURS 303H – 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: 60% in all required second year Nursing courses. Co-requisite: NURS 301H.

NURS 304H – 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: 60% in NURS 101H.

NURS 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% in NURS 100.

NURS 400H – 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. Prerequisite: 60% in all required third year Nursing courses. Co-requisite: NURS 402H.

NURS 402H – Nursing in complex care environments

Nursing practice opportunities to address disruptions involving families posed with dilemmas in mental health, elder, child care and complex issues. Teaching and health promotion opportunities for families experiencing hospitalization for chronic illnesses. Prerequisite: 60% in all required third year Nursing courses. Co-requisite: NURS 400H.

NURS 403D – 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 credits. Prerequisite: 60% in all required third-year Nursing courses, NURS 400H, 402H and BIOL 213H. Co-requisite: one of NURS 410H, 411H, 412H, 414H.

NURS 404H – 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: 60% in NURS 304H.

NURS 410H – Advanced topic: critical care nursing

Students will be provided 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: NURS 403D. Prerequisite: 60% in all required third year Nursing courses, NURS 400H, 402H and departmental approval.

NURS 411H – Advanced topic: Primary health care

Students will be provided 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: NURS 403D. Prerequisite: 60% in all required third year Nursing courses, NURS 400H, 402H and departmental approval.

NURS 412H – Advanced topic: Transitions towards health in illness

Students will be provided 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: NURS 403D. Prerequisite: 60% in all required third year Nursing courses, NURS 400H, 402H and departmental approval.

NURS 413H – Advanced topic: Transcultural concepts in healthcare

This course sensitizes students to recognizing the cultural diversity of health-related values, beliefs and practices when planning professional interventions for their health and well-being. Focus is on caring and curing patterns and practices in relation to different health-illness systems in Canada and elsewhere. Methods for conducting culturological assessments are also included. Prerequisite: 60% in all required third year Nursing courses and departmental approval.

NURS 414H – Advanced topic: Contemporary concepts in healthcare research

This course builds on NURS 305 and considers concepts, frameworks, skills and issues for students in Nursing and other faculties interested in applications of the research process in health care. It uses a range of teaching and learning methods including participation, scenario, case study, discussion, and tutorial and seminar formats. Co-requisite: NURS 403D. Prerequisite: minimum 60% in all required third year Nursing courses, NURS 305, 400H, 402H and departmental approval.

Philosophy

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Chair

To be named

Professors

B. J. Hodgson, M.A. (Toronto), Ph.D. (Western Ontario); **F. C. McKinnon**, B.A. (McGill), B.Phil., D.Phil. (Oxford) (*on leave Fall term*); **R. M. Neumann**, B.A. (Columbia), M.A., Ph.D. (Toronto); **C. W. Tindale**, B.A. (Wilfrid Laurier), M.A., Ph.D. (Waterloo)

Associate Professors

M. Howes, B.Sc., M.A. (Guelph), Ph.D. (Western Ontario); **D. Morris**, M.A., Ph.D. (Toronto)

Assistant Professor

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), F.R.S.C.; **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.

Notes

- It is strongly recommended that students successfully complete PHIL 101 or 105 before enrolling in upper level Philosophy courses.
- The minimum requirement for registration in any Philosophy 200-level course is successful completion of four credits or permission of the chair of the department.
- The minimum requirement for registration in any Philosophy 300- or 400-level course is successful completion of seven credits or permission of the chair of the department.
- Beginning in the 2005–2006 academic year, 200-level courses in Philosophy are no longer 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, with the exceptions of PHIL – AHCL 210, PHIL 214, and PHIL – PSYC 277. This change took effect with students entering Trent in the 2005–2006 academic year.
- 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. PHIL – COSC 240H, PHIL – PSYC 277 and PHIL 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. 209.
- 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- PHIL 101 or 105 are strongly recommended for all students in the Philosophy program.
- PHIL – COSC 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:

- PHIL 210 and 310
- 7 additional credits, including PHIL 105 or PHIL – COSC 240H, at least 2 credits 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:

- PHIL 210 and 310
- 5 additional credits, including at least 1 credit at the 300-level and at least 1.5 credits at the 400-level

The single-major General program. At least 6 credits in Philosophy, including:

- PHIL 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:

- PHIL 210 or 310
- 4 additional credits
- at least 1 of the credits in Philosophy at the 300-level

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

PHIL 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 PHIL 102H and 103H.

PHIL 102H – Introduction to philosophical inquiry: moral and political philosophy

A half-year introduction to philosophy through a study of some fundamental philosophical problems in moral and political philosophy, as presented in contemporary writings and classical texts. Excludes PHIL 101.

PHIL 103H – Introduction to philosophical inquiry: knowledge, mind, and reality

A half-year introduction to philosophy through a study of some fundamental philosophical problems in epistemology and metaphysics, as presented in contemporary writings and classical texts. Excludes PHIL 101.

PHIL104H – Informal logic

A half-year introduction to the study of arguments, as they occur in a variety of contexts. Emphasis will be placed on developing skills in recognizing, constructing, and critically evaluating arguments. Excludes PHIL105. (offered only in Oshawa)

PHIL 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. Excludes PHIL 104H.

PHIL – AHCL 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.

PHIL 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.

PHIL 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.

PHIL 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.

PHIL – WMST 231 – Feminist philosophy

An introduction to feminist philosophy, beginning with Simone de Beauvoir's founding role in existentialism and phenomenology. French postmodernist and deconstructionist feminism will be emphasized through Luce Irigaray and Julia Kristeva and the debates between psycho-analysis and feminism. The works of Judith Butler and feminist theory in North America will also be introduced. (offered in alternate years)

PHIL – POST 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. (offered in alternate years)

PHIL – POST 235 – The political imagination (see Politics)**PHIL 238H – Nursing ethics**

An investigation of some central ethical and legal issues as they affect the theory and practice of nursing. Topics will include ethical principles of health care delivery; professional ethical and legal standards; caregiver rights; patient rights; informed consent; confidentiality; nursing research. Restricted to students enrolled in the B.Sc.N. program. Excludes PHIL 234.

PHIL 239H – Biomedical ethics

An examination of central issues in the field of biomedical ethics. Topics may include abortion; euthanasia and assisted suicide; stem cell research; genetics; reproductive technologies; scarce resources; research using human subjects. Prerequisite for students enrolled in the B.Sc.N. program: PHIL 238H. Excludes PHIL 234.

PHIL – COSC 240H – Symbolic logic (Sc)

An introductory study of formal logical systems, together with their use in the analysis of various types of arguments. Excludes PHIL – COST 240.

PHIL 245H – 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.

PHIL 275H – 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 PHIL 275.

PHIL – PSYC 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 PHIL – PSYC 377H.

PHIL 278H – 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.

PHIL 279H – 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 PHIL 279.

PHIL 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.

PHIL 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 PHIL 212.

PHIL 315 – Phenomenology

Themes and texts will be selected from the writings of Husserl, Heidegger, Merleau-Ponty, Ricoeur and others. Prerequisite: PHIL 214 or permission of the instructor. (offered in alternate years)

PHIL 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. Prerequisite: PHIL 214 or permission of the instructor. (offered in alternate years)

PHIL 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.

PHIL – ERST 330 – Environmental ethics (see Environmental & Resource Science/Studies)**PHIL – COST 337H – Cyberethics**

A course which enables students to develop their own positions about the most important social and moral problems raised by computer use and technologies, including the fragmentation of society into computer "haves" and "have-nots," Internet censorship, pornography, intellectual property rights, and software piracy Excludes PHIL – COST 337.

PHIL 338 – Moral philosophy

A study of the foundations of morals (metaethics) and/or particular moral theories such as utilitarianism, Kantianism, virtue ethics, and contractarianism, including contemporary perspectives and developments. The course may take either a major texts or a topics approach. Excludes PHIL 330 and 335. Does not exclude PHIL – ERST 330. (offered in alternate years)

PHIL 339 – Social and political philosophy

An examination, through major texts or topics, of classical philosophical approaches to such topics as the moral foundations of the state, the relation between law and morals, competing principles of justice, and the rights of citizens. Contemporary social issues, for example, rights of self-determination, humanitarian intervention, and fair taxation, will be discussed. Excludes PHIL 330 and PHIL 335. Does not exclude PHIL – ERST 330. (offered in alternate years)

PHIL – COST 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: PHIL – COSC 240H or permission of the instructor. (offered in alternate years)

PHIL 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: PHIL 105 or PHIL – COSC 240H or permission of the instructor. (offered in alternate years)

PHIL 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.

PHIL 391H – 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.

PHIL – ADMN 420 – Business ethics (see Business Administration)

PHIL 421H – Advanced topics in metaphysics and epistemology

A seminar devoted to in-depth investigation of selected central metaphysical and epistemological themes.

PHIL 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.

PHIL 439H – Advanced topics in biomedical ethics

An in-depth examination of a specific issue in biomedical ethics. Topics will vary each year and may include cloning and stem cell research; reproductive technologies, including abortion; genetics; end of life issues; justice in health care delivery. Prerequisite: PHIL 234 or 239H or permission of the instructor.

PHIL 441H – Advanced topics in logic and language

An advanced study of some of the central themes in philosophy of logic or philosophy of language. Prerequisite: PHIL 240H or permission of the instructor.

PHIL 451H – Kant

A seminar devoted to a close reading of some of Kant's major works. Prerequisite: PHIL 310 or permission of the instructor.

PHIL 452H – Hegel

A seminar devoted to a close reading of some of Hegel's major works. Prerequisite: PHIL 310 or permission of the instructor. Excludes PHIL 412.

PHIL 453H – 19th century philosophy

A study of some central themes and important philosophers of the 19th century. Prerequisite: PHIL 310 or permission of the instructor. Excludes PHIL 412.

PHIL 454H – 20th century philosophy

A study of some central themes and important philosophers of the 20th century. Prerequisite: PHIL 310 or permission of the instructor.

PHIL 461H – Major texts

A close study of one or more central texts by one or more important philosophers. Texts and philosophers to change annually.

PHIL 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: PHIL 461H or permission of the instructor.

PHIL 471H – Advanced topics in philosophy of mind

An in-depth investigation into some of the central issues in philosophy of mind, e.g., consciousness, embodiment, reasons for actions, the emotions, free will, zombies, thinking machines, conscious animals. Prerequisite: PHIL – PSYC 277 or permission of the instructor.

PHIL 490 – 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.

PHIL 491H – 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.

PHIL 495H – Special topics

A seminar devoted to a special topic of philosophical interest, topic to change annually.

PHIL 496H – Special topics II

A seminar devoted to a special topic of philosophical interest, topic to change annually. Prerequisite: PHIL 495H or permission of the instructor.

Physics & Astronomy

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Professor and Chair of the Department

A. J. Slavin, M.Sc. (Toronto), Ph.D. (Cambridge)

Professors

P.C. Dawson, Ph.D. (Victoria); **J. W. Jury**, M.Sc., Ph.D. (Toronto) (*on leave Winter term*)

Associate Professor

D. R. Patton, B.Math (Waterloo), Ph.D. (Victoria) (*on leave 2006–2007*)

Assistant Professors

W.A. Atkinson, M.Sc. (Alberta), Ph.D. (McMaster); **R. C. Shiell**, B.A. Physics (Oxford), Ph.D. (Newcastle upon Tyne); **R. Wortis**, B.Sc. (Harvard), M.Sc., Ph.D. (Illinois)

Senior Demonstrator

J. Breukelaar, B.Sc. (York), M.Sc. (Trent)

Demonstrator

D. Marshall, B.Sc. (Waterloo)

Adjunct Faculty

R. P. Rassool, M.Sc., Ph.D. (Melbourne); **M. N. Thompson**, M.Sc., Ph.D., D.Sc. (Melbourne)

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)

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. In particular, the traditional route to becoming an astronomer has been through an undergraduate degree in physics. Discoveries in physics and astronomy continue to broaden our understanding of the universe, advance space travel, speed up global electronic communications, lead to new products such as ferroelectric computer memories, assist forensic science, 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, Computing & Physics, and in Science, see the relevant sections of the calendar.
- 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- PHYS 314H may be counted towards the 400-level credit requirements in the Honours program
- MATH 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 PHYS 460 or 462H (the project courses) for PHYS 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:

- PHYS 100, 202H, 203H, 270H, 313H, 314H, 321, 380H, 400, 421H, 461H, 470H, PHYS – MATH 205H and 305H
- 0.5 additional credit in Physics at the 400-level
- 1 additional credit in Physics
- MATH 110, 201H and 202H

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

- PHYS 100, 202H, 203H, 270H, 313H, 321, 400, PHYS – MATH 205H and 305H
- 1 additional credit in Physics at the 400-level
- MATH 110, 201H and 202H

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

- PHYS 100, 202H, 203H, 270H, 313H, 321, 380H and PHYS – MATH 205H
- 1 additional credit in Physics
- MATH 110, 201H and 202H

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

- PHYS 100, 202H, 203H, 270H, 313H, 321, 380H and PHYS – MATH 205H
- MATH 110, 201H and 202H

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006–2007 including when they will be scheduled.

PHYS 100 – Introductory physics

Particle dynamics, translational and rotational motion, fluids, elasticity, thermal physics, electricity, magnetism, optics, quantum physics. Prerequisite: 4U Calculus or Algebra, or equivalent (p. 232) or permission of the department. Recommended: 4U credits in Physics, Calculus and Algebra. Strongly recommended: concurrent enrolment in first-year calculus. MATH 110 is required for upper-level Physics courses.

PHYS 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. Not to be counted towards a major in Physics.

PHYS 202H – 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: PHYS 100 and MATH 110. Pre- or co-requisite: PHYS – MATH 205H.

PHYS 203H – Atomic, molecular and nuclear 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: PHYS 202H, PHYS – MATH 205H and MATH 201H.

PHYS – MATH 205H – Ordinary differential equations (see Mathematics and Notes)

PHYS 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 PHYS 100. Normally open only to students who are in the Concurrent or Consecutive Education programs or who are pursuing the Emphasis in Teacher Education, but limited spaces may be available for non Teacher Education students (consult with department secretary).

PHYS – COSC 225H – 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: PHYS 100 and MATH 110. Excludes PHYS 325H. (offered in alternate years)

PHYS – COSC 231H – Computational physics

Use of computational methods to solve a range of problems in physics which are not accessible to analytical treatment. Typical topics include the motion of real projectiles, planetary motion and chaos, electric fields, waves, and random systems. Prerequisite: PHYS 100, MATH 110. Pre- or co-requisite: MATH 201H and 205H. (offered in alternate years)

PHYS 251H – 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: PHYS 150. Excludes PHYS 250. Not to be counted toward a major in Physics.

PHYS 270H – Thermal physics

First and second laws of thermodynamics and applications, heat transfer, blackbody radiation, kinetic theory of gases, statistical thermodynamics. Prerequisite: PHYS 100 and 202H and MATH 201H.

PHYS – MATH 305H – Partial differential equations (see Mathematics and Notes)**PHYS – MATH 308H – Methods of applied mathematics** (see Mathematics)**PHYS – MATH 313H – 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: MATH 110 and PHYS 100. Pre- or co-requisite: MATH 201H.

PHYS – MATH 314H – 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: MATH 201H and 205H and PHYS – MATH 313H.

PHYS – COSC 321 – Electricity and magnetism

Electrostatics, magnetostatics, electric and magnetic properties of matter, Maxwell's equations, electromagnetic wave propagation. Prerequisite: PHYS 100, MATH 201H and 202H.

PHYS 380H – 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: PHYS 100, MATH 201H and PHYS – MATH 205H.

PHYS 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 department.

PHYS 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: PHYS 203H, PHYS – MATH 305H, PHYS – COSC 321.

PHYS 421H – Electromagnetic theory

Maxwell's equations, the interactions of electromagnetic fields with matter, the relativistic formulation of electromagnetism and its applications. Prerequisite: PHYS – COSC 321, PHYS – MATH 305H. Excludes PHYS 420.

PHYS – CHEM 422H – Principles and applications of symmetry and group theory (see Chemistry)

PHYS 424H – Modern optics

Coherence and fluctuations of light sources: interferometers. Interaction of light with matter: Einstein coefficients and quantum-mechanical treatment of matter. Basic laser theory: absorption and gain, saturation, three and four-level laser systems. Longitudinal and transverse modes, Gaussian beams. Specific laser systems. Concepts in modern quantum optics. May be taken in third or fourth year. Prerequisite: PHYS 203H, MATH 201H and 202H. Pre- or co-requisite: PHYS – COSC 321, PHYS – MATH 305H. Recommended: PHYS 380H. (offered in alternate years)

PHYS 431H – Condensed matter physics

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: PHYS 270H, PHYS 203H, PHYS – MATH 205H, MATH 201H and 202H. Pre- or co-requisite: PHYS – COSC 321, PHYS – MATH 305H. Excludes PHYS 430.

PHYS 441H – 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: PHYS 203H, Pre- or co-requisite: PHYS – MATH 305H, PHYS – COSC 321 Excludes PHYS 440. (offered in alternate years)

PHYS 450H – Astrophysics: stellar atmospheres

Observational data; magnitudes, spectra, related quantities; masses, radii, luminosities, metallicity and age. Stellar populations. Radiative transfer: absorption and emission of radiation, equation of transfer. Physical properties of gases. Absorption coefficients. Electron pressure. Model atmospheres; convection, formation of absorption lines. Line profiles, strengths. Dependence on surface gravity. Prerequisite: PHYS 203H, PHYS 270H, PHYS – MATH 205H. Strongly recommended: PHYS 150, PHYS 230H. (offered in alternate years)

PHYS 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.

PHYS 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.

PHYS 470H – 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: PHYS 270H, PHYS 203H, PHYS – MATH 205H and MATH 202H. Pre- or co-requisite: PHYS 321, PHYS – MATH 305H. Excludes PHYS 430.

PHYS 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 department.

Politics

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E-mail: politics@trentu.ca

Web: www.trentu.ca/politics

Assistant Professor and Chair of the Department

F. Baban, B.A., M.A. (Bogazici), Ph.D. (Carleton)

Professors

D. R. Morrison, M.A. (Saskatchewan), D.Phil. (Sussex); **A. Pickel**, M.A. (Guelph), Dipl.Pol. (Berlin), Ph.D. (York); **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)

Associate Professors

J. D. Driscoll, M.A., Ph.D. (Queen's); **M. Neufeld**, B.A. (Waterloo), M.A., Ph.D. (Carleton); **C. O'Manique**, B.A. (Carleton), M.A., Ph.D. (York) (*on leave Fall term*); **E. Stavro**, M.A., Ph.D. (Toronto)

Assistant Professors

N. Changfoot, B.A. (York), M.A. (Carleton), Ph.D. (York); **D. Hall**, B.A. (Trent), M.A. (York), Ph.D. (Cornell)

Adjunct Faculty

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

Associated Faculty

Canadian Studies: **D. Bhandar**, **B. Palmer**, **J. Struthers**. *Environmental & Resource*

Science/Studies: **S. Bocking**, **R. Paehlke**. *International Development Studies:* **C. Huxley**.

Indigenous Studies: **M. Dockstator**, **D. Newhouse**. *Sociology:* **J. Conley**, **C. Huxley**. *Women's Studies:* **M. Hobbs**

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)

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 Politics 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.

Notes

- Politics 100 is required for all upper level courses in Politics.
- 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 Politics, 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.
- Politics courses continue to be identified as POST in the registrarial system.

BACHELOR OF ARTS PROGRAM IN POLITICS

- See p. 22 for requirements which apply to all undergraduate degree programs.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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 Politics or permission of the instructor.
- Politics majors must complete at least two of three second-year core courses (POST 201, 220, 235).
- Successful completion of fifteen credits, including five credits in Politics (one of which must be in political theory, POST 235 or 333) or permission of instructor, is a prerequisite for all 400-level courses.
- The Honours program in Politics must include one credit in political theory (POST 235 or 333).
- Students interested in the possibility of registering for a reading course (POST 390, 391H, 392H, 393H, 394H or 490, 491H, 492H, 493H, 494H), internship (POST 487, 490) or thesis (POST 402) should consult with the department regarding prerequisites and application procedures.

The single-major Honours program. At least 9 credits in Politics including:

- Politics 100
- at least 2 of POST 201, 220 or 235
- 2 credits at the 300-level
- 3 credits at the 400-level
- 1 additional credit
- at least 1 of the 9 credits in political theory (POST 235 or 333)

The joint-major Honours program. At least 7 credits in Politics, including:

- Politics 100
- at least 2 of POST 201, 220 or 235
- 2 credits at the 300-level
- 2 credits at the 400-level
- at least 1 of the 7 credits in political theory (POST 235 or 333)

The single-major General program. At least 6 credits in Politics, including:

- Politics 100
- at least 2 of POST 201, 220 or 235
- 2 credits at the 300-level
- 1 additional credit

The joint-major General program. At least 5 credits in Politics, including:

- Politics 100
- at least 2 of POST 201, 220 or 235
- 2 credits at the 300-level

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006–2007 including when they will be scheduled.

POST 100 – Introduction to politics

A critical introduction to the main themes in the study of politics including democracy, justice, ideology, security, development, state-building and globalization. Course materials will focus on the global and North American contexts.

POST – NAST 200 – Politics and Aboriginal communities (see Indigenous Studies)

POST – CAST 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.

POST – ERST 210H – Environmental science and politics (see Environmental & Resource Science/Studies)

POST 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)

POST – CAST – HIST 221H – “Empire Ontario” 1867-1945 (see Canadian Studies)

POST – CAST – HIST 222H – Ontario since 1945: From the “common good” to “common sense” (see Canadian Studies)

POST – CAST – HIST 228H – Canada in the 1960s: Irony and identity (see Canadian Studies)

POST – PHIL 232 – Philosophy of law, justice and rights (see Philosophy)

POST – PHIL 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 POST 335.

POST – CAST – SOCI 300 – Reading the social: Space, difference, and power in Canada (see Canadian Studies)

POST – NAST 302 – Aboriginal governance (see Indigenous Studies)

POST – CAST – SOCI 305H – Society and politics in Quebec (see Canadian Studies)

POST – CAST 309 – Law and constitutional issues

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.

Prerequisite: POST 201 or WMST 237H or PHIL 232 or permission of instructor.

POST – CAST – ERST 310 – Public policy and the Canadian environment (see Environmental & Resource Science/Studies)

POST 317H – U.S. Politics

A critical introduction to U.S. government and politics, situating political behavior within the larger context of political, economic and social power. We will cover the workings of the main political institutions (the presidency, Congress and the courts), elections, political parties, social movements, and the media. Recommended: POST 220.

POST 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: POST 220.

Excludes POST – CAST 320.

POST – CAST 321H – 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: POST 220. Excludes POST – CAST 320.

POST – IDST 322H – Global political economy (see International Development Studies)

POST – SOCI 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: POST 220. Excludes POST – SOCI 323H.

POST 324H – 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: POST 220.

POST – CAST 326H – North American politics

This course will explore the politics of North American integration, covering Canada, the United States and Mexico. Topics will include borders, security, trade, immigration and the emergence of a North American civil society. Recommended: POST 201 or 220.

POST 328H – Critical security studies

This course will explore concepts of security, focussing on the contested meaning of security in relation to states, nations, identities, individuals, markets, the environment and technology.

Recommended: POST 220. Excludes POST 3973H.

POST – IDST 329H – Causes of war

A survey of theories of the causes of war. Topics include structural realism, democratic peace theory, Marxism, domestic state structure and coalition-building, ideology, patterns of state formation, gender, and religion. The course pays special attention to contemporary civil wars, terrorism as warfare, and 21st century American foreign policy. Prerequisite: POST 220 or permission of instructor.

POST 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 POST 233.

POST – WMST 334H – 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 focussing on developments in democratic theory and relating these to particular contexts of democratic practice. Excludes POST 334.

POST 335H – The politics of creativity

This course explores how creativity is a vital aspect of politics. Students will examine and reflect upon "doing politics differently" with the help of political theory, consideration of citizenship, and examples of activism through art and culture. Recommended: POST 235. Excludes POST 3971H.

POST – WMST 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 focussing 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 POST – WMST 336.

POST– IDST 350H – Political economy of Japan

A survey of the Japanese political economy since the Tokugawa period. Topics include the state's role in economic growth, economic nationalism, gender and labour relations, the financial system, Japan in the regional political economy, and connections between contemporary political and economic reform. Prerequisite: POST 220 or IDST 200 or permission of instructor. Excludes POST-IDST 327.

POST – IDST 351H – Political economy of China

A survey of the Chinese political economy. Topics include China's 19th and early 20th century crisis, the political economy of Maoism, China's place in the global trade and financial structures, gender and industrialization, environmental degradation, regional disparities, and the current relationship between the Communist Party and the economy. Prerequisite: POST 220 or IDST 200 or permission of instructor. Excludes POST-IDST 327.

POST – CUST 357 – Cultural politics

Political questions are always posed in a cultural context, but culture itself is now a political question. The course examines historical background, including the politics of the *avant garde* and the "new sensibility" of the 1960s, and then turns to the politics of current movements posing culture as an issue.

POST – ERST – IDST 360 – Environment and development (see Environmental & Resource Science/Studies)**POST – CAST 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: POST 201, 334H. Excludes POST – CAST 362.

POST – CAST 366H – 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: POST 201 or POST 220 or permission of the instructor.

POST – CAST – WMST 367 – Women and politics in Canada

This course examines how women are constructed in different locations of politics, why this occurs, and how women approach politics through different strategies and activism. Recommended: POST 201 or 220.

POST – SOCI 382H – Protest, contention and social movements (see Sociology)

POST – WMST 388H – The politics of gender and globalization

This course focusses 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, focussing on specific issues such as: international trade agreements, labour, security, migration, health, environment, and human rights. Prerequisite: either one 200-level course in Politics or Women's Studies or permission of the instructor. Recommended: POST 220 or WMST 201. Excludes POST-WMST 388.

POST 390, 391H, 392H, 393H, 394H – 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. Prerequisite: permission of the department, but see Notes.

POST 395 – Special topic: Socialism: theory and practice

This course explores the significance of socialist politics and Marxist analysis under neoliberal globalization. Surveys philosophy, political economy, ideology; communism, social democracy, postcommunist transformations; Eastern Europe, China, Cuba. Strongly recommended: POST 220.

POST 396H, 397H – Special topics**POST – CAST – WMST 3962H – Special topic: Feminist legal issues I** (see Women's Studies)**POST – CAST – WMST 3972H – Special topic: Feminist legal issues II** (see Women's Studies)**POST 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.

POST – CAST 405 – Contemporary Canadian problems

A project-oriented course which focusses 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. Prerequisite: POST 201 or POST 220 or permission of the instructor. Excludes POST – CAST 405H.

POST 420H – Politics of globalization I: 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: POST 220 or permission of the instructor.

POST – IDST 423H – Global civil society (see International Development Studies)**POST – IDST – CAST 424 – Canada, globalization, and international development** (see International Development Studies)**POST – IDST 425H – Topics in global political economy: Money and finance** (see International Development Studies)**POST 426H – Advanced theories of global politics**

An advanced survey of the main theories of global politics, including both traditional and critical approaches to geopolitics and human security. Topics may also include gender, postcolonialism and poststructuralism. Prerequisite: POST 220 or permission of the instructor.

POST – IDST 427H – 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.

POST 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 focusses 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.

POST – WMST 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.

POST 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.

POST 433 – 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 POST 433H.

POST – CAST – HIST 435 – History of the radical book in Canada 1860-1970 (see Canadian Studies)**POST – CAST 440 – Space, power and citizenship** (see Canadian Studies)**POST – CAST – WMST 443 – Women, the welfare state and globalization in Canada** (see Women's Studies)**POST – ERST – CAST 460H – Public policy in global perspective** (see Environmental & Resource Science/Studies)**POST – ERST – IDST 461H – Global environmental policy** (see Environmental & Resource Science/Studies)**POST – CAST – HIST 477 – Studies in Canadian social policy** (see Canadian Studies)**POST 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. 204). Prerequisite: at least 10 credits, with an overall average of at least 75%.

POST 490, 491H, 492H, 493H, 494H – Reading course in politics

Open only to students in the fourth year of a Politics major program. 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.

POST 4951 – Special topic: Globalization in cross-disciplinary perspective

This course explores recent literature on globalization from different disciplinary perspectives. Advanced course for students with a solid foundation in international relations and global political economy. Above average reading and writing demands. Strongly recommended: POST 220 and at least one 300-level course in global politics. Excludes POST 495.

POST – CUST 49510 – Special topic: Theories of cultural politics (see Cultural Studies)**POST 496H – Special topic: Politics of globalization II****POST – SOCI 497H – World cities and local politics**

This course will look at the politics of cities from the perspectives of the growing importance of cities within global systems, the effects of globalization on localities, how we construct theories of urban politics. "Problem areas" to be explored include urban poverty, urban governance, economic development, and the environment. Excludes POST 496H (World cities and local politics).

POST 498H – Special topics

Psychology

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Professor and Chair of the Department

G. T. Reker, B.A. (McMaster), M.A.Sc., Ph.D. (Waterloo)

Professors

D. J. Kennett, B.A., Ph.D. (McMaster); **J. D. A. Parker**, B.A. (Simon Fraser), M.A., Ph.D. (York);
C. T. Smith, B.Sc. (Manitoba), M.A., Ph.D. (Waterloo) (*on leave Winter term*); **G. Winocur**, M.A. (Manitoba), Ph.D. (Waterloo)

Associate Professors

J. B. Aubrey, M.Sc., Ph.D. (Alberta); **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); **C. F. Sproule**, M.A. (Toronto); **L. J. Summerfeldt**, M.A., Ph.D. (York)

Assistant Professors

A. Archer, B.A. (Trent); B.Ed. (Nipissing), M.Ed. (Western), Ph.D. (Toronto); **B. Bauer**, M.A., Ph.D. (Waterloo); **R. Coughlan**, M.A., Ph.D. (Victoria); **T. DeCicco**, B.Sc. (Manitoba), M.Sc. (Trent); **T. P. Humphreys**, M.A. (Wilfrid Laurier), Ph.D. (Guelph); **N. Im-Bolter**, M.A., Ph.D. (York); **L. Kerr**, B.Sc., M.Sc. (Carleton), Ph.D. (British Columbia); **M. Liu**, M.Ed. (Shanghai), M.A., Ph.D. (Western Ontario); **K. Peters**, M.A., Ph.D. (British Columbia); **B. Smith-Chant**, B.A. (Trent), M.A., Ph.D. (Carleton)

Adjunct Faculty

W. Ammons, M.A., Ph.D. (Toronto); **I. D. R. Brown**, B.A. (Queen's), M.A. (Waterloo), Ph.D. (Toronto)

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)

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 PSYC 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 PSYC 215 is a prerequisite, a statistics course in another discipline may be substituted, but only if the permission of the department has been granted.
- A maximum 2 credits consisting of either reading courses (PSYC 390, 391H, 392H, 490, 491H and 492H) or research practicum courses (PSYC 387H, 388H, 487H and 488H) may be counted towards the course requirements for a major or joint-major degree in Psychology.
- Advanced topics courses change from year to year. A preview of Advanced topic courses for 2006–2007 is published in the department of Psychology Student Handbook, available in March, 2006 (department office and website, www.trentu.ca/psychology).

- 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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 PSYC 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.
- PSYC 333 will not be offered after July 1, 2005. Students who have completed PSYC 333 prior to that date may count it in lieu of PSYC 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:

- PSYC 101 and 215
- PSYC 315
- 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:

- PSYC 101 and 215
- PSYC 315
- 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:

- PSYC 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:

- PSYC 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:

- PSYC 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:

- PSYC 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, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

PSYC 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. For information about web-based versions of this course contact the department.

PSYC 202H – 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 PSYC 101. Excludes PSYC 302H, 365, 4952.

PSYC 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 PSYC 101.

PSYC 222H – 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 PSYC 101. Excludes PSYC 221.

PSYC 225H – Introduction to cognitive psychology

This course focusses on humans as processors of information. Topics include perception, attention, memory, knowledge, consciousness and reasoning. Prerequisite: C- (60%) or higher in PSYC 101. Excludes PSYC 306 and 351.

PSYC 227H – 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 PSYC 101. Excludes PSYC 351 and 320.

PSYC 236H – 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 PSYC 101. Excludes PSYC 235.

PSYC 240H – 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 PSYC 101. Excludes PSYC 340.

PSYC 272H – 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 PSYC 101. Excludes PSYC 271.

PSYC – PHIL 277 – Philosophy of mind

(see Philosophy) Not counted as part of the minimum requirements for the General or Honours degrees in Psychology.

PSYC 281H – 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 PSYC 101. Excludes PSYC 280.

PSYC 300H – 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: PSYC 271 or 272H.

PSYC 303H – 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: PSYC 225H or 306 or 351. Excludes PSYC 396H.

PSYC – WMST 304H – 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: PSYC 271 or 272H.

PSYC 307H – 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: PSYC 215 and one of PSYC 202H, 225H, 306, 351. Excludes PSYC 365, 4952.

PSYC 308H – 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 PSYC 215. Excludes PSYC 301.

PSYC 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 PSYC 215.

PSYC 323H – 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: PSYC 227H. Excludes PSYC 320.

PSYC 332H – Basic psychometrics

A basic introduction to the principles of educational and psychological test construction and development. Topics include classical test theory, correlational methodology, item analysis, reliability, validity, and norms. Working knowledge of the Statistica software program is assumed. Prerequisite: C-(60%) or higher in PSYC 215; excludes PSYC 333.

PSYC 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: PSYC 215 and 0.5 credit from A2 category. recommended: PSYC 332H. Excludes PSYC 330, 430.

PSYC – BIOL 336H – Behavioural ecology

Not counted as part of the minimum requirements for the General or Honours degree in Psychology. (see Biology)

PSYC 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: PSYC 236H. Excludes PSYC 235.

PSYC 341H – 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: PSYC 240H. Excludes PSYC 340.

PSYC 343H – 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: PSYC 215 and one other 200-level Psychology credit. Excludes PSYC 353, 450.

PSYC 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: PSYC 215 and 225H. Excludes PSYC 306 and 351.

PSYC – WMST 355H – Human sexuality

This course examines biological and social psychological components of human sexual development and behaviour from a life-span perspective in the North American context. Attention is given to formal and informal sexual socialization and to laws regulating sexual behaviour, with an emphasis on psychological research and theory and differing value perspectives. Prerequisite: PSYC 272H.

PSYC 363H – 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: PSYC 280 or 281H. Excludes PSYC 380, 480.

PSYC 366H – 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: PSYC 215; and 0.5 credit from A2 category. Excludes PSYC 306.

PSYC 372H – 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.

PSYC 373H – 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 PSYC 221, 222H, 235, 236H.

PSYC – BIOL 375H – 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: PSYC 221 or 222H or one of BIOL 207H, 211H, 213H, 384H.

PSYC – BIOL 376H – 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: PSYC 221 or 222H or PSYC – BIOL 375H.

PSYC 379H – 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 focussed on the experiential factors that lead to maintenance and improvements in many cognitive skills. Prerequisite: PSYC 215 and one of PSYC 225H, 306, 351. Excludes PSYC 380, 480.

PSYC 381H – 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: PSYC 280 or 281H.

PSYC 383H – 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: PSYC 280 or 281H. Excludes PSYC 382.

PSYC 384H – 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: PSYC 280 or 281H; or C- (60%) or higher in PSYC 101 and four Nursing credits.

PSYC 387, 388H – Research practicum

A course designed to allow students in the third year of the 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 PSYC 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.

PSYC 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: Honours standing; PSYC 215; specific course prerequisites depending on the supervisor; and permission of the department.

PSYC 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. PSYC 402 is a double credit for Psychology majors; PSYC 401 is a single credit involving submission of the same thesis to the other department/program of a joint-major. Prerequisite: (a) PSYC 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.

PSYC 414H – Advanced topics in perception, learning, cognition and language

Topic for 2006–2007: Consciousness. A study of theory and research on attention, conscious and unconscious processes and their role in cognition and emotion. Prerequisite: Honours standing; one of PSYC 202H, 225H, 303H, 307H, 352H, 366H, 376H; PSYC 315 or 333 (PSYC 315 will be accepted as a co-requisite, if the student has completed 15 credits); at least one additional 300-level PSYC credit.

PSYC 416H – Advanced topics in perception, learning, cognition and language

Topic for 2006–2007: 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; PSYC 315 or 333; PSYC 225H, 351, 365 or 430; and at least 1 300-level psychology course credit. (PSYC 315 or 333 will be accepted as a co-requisite, provided the student has successfully completed 15 credits).

PSYC 418H – Advanced topics in perception, learning, cognition and language

Topic for 2006–2007: Mathematical cognition. An analysis of mathematics learning and performance from a cognitive perspective including a consideration of research and theory related to procedural and conceptual knowledge, understanding, representation, knowledge organization, reasoning, problem solving, self-regulation, and beliefs. The topics and readings for the seminar are meant to reflect this multidiscipline approach. Pre-requisite: Honours standing; one of PSYC 205H, 225H, or 227H, PSYC 315 or 333 (PSYC 315 will be accepted as a co-requisite, if the student has completed 15 credits).

PSYC 423H – Advanced topics in physiological psychology and neuroscience

Topic for 2006–2007: 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; PSYC 372H; PSYC 315 or 333 (PSYC 315 will be accepted as a co-requisite, if the student has successfully completed 15 credits); at least one additional 300-level Psychology credit.

PSYC 434H – Advanced topics in personality, social, abnormal and development

Topic for 2006–2007: Successful aging. A study of research and theory about factors contributing to successful aging across the life span. Topics to be covered include the definition and indicators of successful aging, models and predictors/determinants of successful aging, personal meaning, spirituality/religiosity and successful aging, successful aging in institutions, and ways of promoting successful aging. Prerequisite: Honours standing; PSYC 363H; PSYC 315 or 333; and at least one 300-level Psychology credit.

PSYC 437H – Advanced topics in personality, social, abnormal and development

Topic for 2006–2007: The school and children with exceptionalities. Students in this course will examine a number of different types of developmental exceptionalities with a focus on the school environment. Prerequisite: Honours standing, PSYC 315 or 333 (accepted as a co-requisite if the student has successfully completed 15 credits and at least one 300-level Psychology credit), PSYC 383H or 301. (offered only in Oshawa)

PSYC 438H – Advanced topics in personality, social, abnormal and development.

Topic for 2006–2007: A study of recent theory and research in the area of atypical language development. Topics include theoretical reviews of underlying mechanisms, impact on other areas of development, related and/or associated disorders, assessment, intervention and outcomes. Prerequisite: Honours standing, one of PSYC 202H, 225H, 281H, 307H, 383H, PSYC 315 or 333 (PSYC 315 will be accepted as a co-requisite, if the student has successfully completed 15 credits), at least one additional 300-level Psychology credit.

PSYC 439H – Advanced topics in personality, social, abnormal and development

Topic for 2006–2007: Social dimensions of sexuality. A social psychological examination of sexuality. Social psychology and human sexuality are shaped by broader social contexts. Historical, cultural, interpersonal and intrapersonal understandings shape our current knowledge about sex and sexuality. The focus will be on the integration of social psychology theory and research with social aspects of human sexuality. Prerequisite: Honours standing, PSYC 300H or 304H, PSYC 315 or 333 (accepted as a co-requisite, if the student has successfully completed 15 credits); and at least one additional 300-level Psychology credit.

PSYC 447H – Advanced topics in theoretical, psychology, applied psychology and measurement

Topic for 2006–2007: Critical psychology. This course examines embedded theoretical and methodological assumptions of mainstream psychology and how the generation of such knowledge products support particular political and ideological goals. We will discuss alternative conceptions and subjects more consistent with an emancipatory world view including ethics, critical theory, personality, community, justice, feminist theory and gay perspectives. Prerequisite: Honours standing, PSYC 315 or 333 (PSYC 315 or 333 will be accepted as a co-requisite, provided the student has successfully completed 15 credits), PSYC 272H and at least one 300-level psychology course credit.

PSYC 471H – 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 PSYC 470.

PSYC 472H – Advanced psychometrics

A detailed, in-depth examination of topics in advanced psychometrics including empirical criterion keying, multi-trait multi-method validation, exploratory factor analysis, confirmatory factor analysis, and item response theory. Introduction to advanced STATISTICA modules and structural equation modeling using EQS methodology. Prerequisite: PSYC 332H or 333 and 315.

PSYC – SOCI 473H – 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 presentation techniques. Qualitative research strategies discussed will include in-depth interviews, focus groups, interpretive ethnography, narrative analysis, discourse analysis, action and participatory research. Prerequisite: PSYC 315 and four additional Psychology credits, or SOCI 215, SOCI 316H or equivalent, and four additional Sociology credits.

PSYC – BIOL 484H – Neuroendocrinology (see Biology)

PSYC 487H, 488H – Research practicum

A course designed to allow students in the 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 PSYC 315, at least one other Psychology credit at the 300- or 400-level, 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.

PSYC 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: Honours standing; PSYC 315 or 333; At least one other 300- or 400- level Psychology credit; specific course prerequisites depending on the supervisor; and permission of the department. (PSYC 315 will be accepted as co-requisite provided that the student has successfully completed 15 credits).

Science

Telephone: (705) 748-1011 ext. 7202

Fax: (705) 748-1157

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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.

ERSC 270 – BIOL – Environmental science for Teacher Education (see Environmental & Resource Science/Studies and Biology). Limited spaces may be available for non Teacher Education students (consult with instructor)

ERSC 350 – Environment and communication (see Environmental & Resource Science/Studies)

MATH 280 – Mathematics for Teacher Education (see Mathematics). Limited spaces may be available for non Teacher Education students (consult with instructor)

MATH 380 – History of mathematics (see Mathematics)

PHYS 150 – Introductory astronomy (see Physics & Astronomy)

PHYS 209 – Physical science for Teacher Education (see Physics & Astronomy). Limited spaces may be available for non Teacher Education students (consult with department secretary)

PHYS 251H – Life in the universe (see Physics & Astronomy)

Sociology

Telephone: (705) 748-1011 ext. 1537
Fax: (705) 748-1213

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

Professor and Chair of the Department

S. Katz, B.A. (York), M.A. (McGill), Ph.D. (York)

Professors

S. Apostle-Clark, B.A. (Liverpool), M.A. (McMaster), Ph.D. (British Columbia);
P. Bandyopadhyay, B.A. (Calcutta), M.A. (Oxford, Manchester), Ph.D. (Manchester) (*on leave Fall term*); **A. Heitlinger**, B.A. (Kent), Ph.D. (Leicester); **C. V. Huxley**, B.A. (York, England), M.A. (Simon Fraser) (*on leave Winter term*), Ph.D. (Toronto); **B. L. Marshall**, M.A. (Guelph), Ph.D. (Alberta) (*on leave Winter term*)

Associate Professors

D. M. Clarke, B.A. (Trent), M.A. (McMaster), Ph.D. (Carleton) (*on leave Fall term*); **J. Conley**, B.A. (Alberta), M.A. (Toronto), Ph.D. (Carleton); **A. Law**, B.A.S. (Sydney), M.A., Ph.D. (Alberta); **F. Nutch**, B.A. (Adelphi), M.A. (Hawaii), Ph.D. (York) (*on leave Winter term*); **D. Parnis**, B.A. (Ryerson), M.A. (Toronto), Ph.D. (Carleton)

Assistant Professors

G. Balfour, B.Sc., M.A. (Ottawa), Ph.D. (Manitoba); **E. S. Ruppert**, B.A. (British Columbia), M.A. (Toronto), Ph.D. (York); **M. White**, B.A. (British Columbia), M.A., Ph.D. (Carleton)

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.

Notes

- C- (60%) or higher in SOCI 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. Students in the B.Sc.N. program who have achieved satisfactory standing in NURS 305 and who wish to take sociology courses for a joint-major are exempt from the sociology research methods (SOCI 215) requirement. This policy is not meant to exclude students from taking SOCI 215.
- 400-level courses are open to students who have completed 10 credits, of which 2 must be at the 300-level.
- Students must complete SOCI 210 and 215 before proceeding to 400-level courses, otherwise permission of the instructor is required.
- Honours courses offered in Oshawa may have different course content. Contact the Sociology Department for information.
- ECON – ADMN 220H, GEOG – ERSC – BIOL 208H, MATH 150, PSYC 215 or PSYC 315 are equivalent to SOCI 316H for program requirements, but do not count as a Sociology credit. Students who have successfully completed an equivalent to SOCI 316H are not permitted to take SOCI 316H.
- 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 same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.

- 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.
- Students planning to enter graduate school are strongly advised to take at least one of SOCI 403H or 404H.

The single-major Honours program. At least 9.5 credits in Sociology, including:

- SOCI 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:

- SOCI 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:

- SOCI 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:

- SOCI 100, 210 and 215
- 1 credit at the 300-level
- 1 additional credit

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

SOCI 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.

SOCI 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 credits and C- (60%) or higher in SOCI 100.

SOCI 215 – Research methods

A project based introduction to the major research methods in sociological research. Excludes SOCI 221H. Prerequisite: C- (60%) or higher in SOCI 100

SOCI 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 SOCI 100.

SOCI 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 SOCI 100.

SOCI – CAST – POST 300 – Reading the social: Space, difference and power in Canada (see Canadian Studies)

SOCI – CAST – POST 305H – Society and politics in Quebec (see Canadian Studies)

SOCI 316H – Statistics

An introduction to basic statistics and their application in sociological research. Prerequisite: SOCI 215 or 221H. Excludes ECON – ADMN 220H, GEOG – ERSC – BIOL 208H, MATH 150, PSYC 215, 315 and SOCI 222H.

SOCI – IDST 312H – Law, rights and development (see International Development Studies)**SOCI – POST 323 – Nationalism and political order in global perspective** (see Politics)**SOCI – HIST 326 – The other Europe** (see History)**SOCI – ADMN 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 or Administration at the 200-level.

SOCI 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.

SOCI 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: SOCI 210 or 220 or permission of the instructor.

SOCI – WMST 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 SOCI – WMST 342.

SOCI – WMST 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.

SOCI 345 – Culture and society

This critical examination of culture in contemporary society focusses 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.

SOCI 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.

SOCI 357, 358H – Community-based research project

Students are placed in research projects with community organizations in Peterborough and Haliburton counties. Each placement is supervised jointly by a faculty member and a representative of a community organization. For details see "Community-Based Education Program" (p. 204). Prerequisite: SOCI 215.

SOCI 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. Prerequisite: one credit in Sociology at the 200-level. Excludes SOCI 364H, 365H.

SOCI 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.

SOCI 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.

SOCI 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 SOCI 241.

SOCI – POST 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: SOCI 210 or 220 or at least one credit in Politics at the 200-level or permission of the instructor.

SOCI – WMST 386H – Gender, race and class (see Women's Studies)**SOCI – CAST – WMST 387H – Immigrant women in Canada** (see Women's Studies)**SOCI – CAST 388H – Selected topics in Canadian social structure**

A critical examination of particular dimensions of Canadian society in comparison with the United States and other societies. Possible topics include: class divisions and class-based cultural formations, regionalism, ethnicity, and processes of political communication. Prerequisite: one credit in Sociology or Canadian Studies at the 200-level.

SOCI 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.

SOCI 403H – Key concepts in contemporary sociological analysis

The course examines Bourdieu's "habitus" and Gramsci's "hegemony" as explanations of domination as everyday practice, with special attention to the everyday life settings and experiences of television audiencehood. Topics include the so-called "global culture" of critical media consumption, the sociality of television viewership, and the self-referential nature of information reception.

SOCI 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.

SOCI – ANTH 410H – Gifts and commodities (see Anthropology)**SOCI 427H – Sociology of Law**

This course examines law and society using classical and contemporary socio-legal theory, focussing on the form of law, the practice of law, and law as a strategy for social change. Possible topics: Aboriginal peoples and the law, immigration law, human rights legislation, poverty and labour law, family law and youth justice. Pre-requisites: SOCI 361 or permission of the instructor.

SOCI 431H – Studies in sociology of everyday life

The course explores theoretical, methodological and applied approaches to the sociology of everyday life and the establishment of social order through social interaction, relations of power, symbolic and ecological environments and comparative social worlds. This year the course examines the specific topic of the sociology of food and its productive, consumer, spatial and public contexts. Prerequisite: SOCI 316H or equivalent or permission of the instructor.

SOCI 435H – Sociology of the automobile

Through the medium of the automobile and its role in our daily lives, culture, economy and society of North Americans, this course will explore sociological issues such as social order, risk, trust, power, status, class, sexuality and gender, deviance, and the life course. The sociology of the automobile is an emerging area whose study requires sociological imagination and ingenuity.

SOCI 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.

SOCI 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.

SOCI – CAST 445 – The media and communications in Canada

This course examines the history and political economy of the media industries, including publishing, film, radio, television and newer communication technologies. Special topics include media ownership and control, the process of televisual information production, and the dynamics of media reception.

SOCI 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.

SOCI – CAST – WMST 455 – The dynamics of difference: Gender, disability, and Canadian cultural representations (see Canadian Studies)**SOCI 457, 458H – Community-based research project**

Students are placed in research projects with community organizations in Peterborough and Haliburton counties. Each placement is supervised jointly by a faculty member and a representative of a community organization. For details see "Community-Based Education Program" (p. 204). Prerequisite: SOCI 215.

SOCI – WMST 461H – Advanced studies in the sociology of gender

This year: "Bodies, Genders, Technologies." This course explores the body as a critical boundary between nature and culture, focussing on technologies implicated in the production of gendered bodies. Drawing on sociological and feminist theories, we will examine research on a range of representational, body modification and biomedical technologies. Prerequisite: at least one of SOCI-WMST 343H, 344H, SOCI 345, 363 or permission of the instructor.

SOCI 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.

SOCI – IDST 470H – Religion and social movements (see International Development Studies)**SOCI – PSYC 473H – Qualitative research and analysis** (see Psychology)**SOCI 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.

SOCI 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: SOCI 316H or equivalent or permission of the instructor.

SOCI 496H – Special topic: Ethnicity, identity and community

The course explores issues of ethnic identity and socio-cultural diversity on a comparative basis, and within transnational contexts of migrational and refugee movements, displaced cultures, wars and social upheaval, diasporas and humanitarian crises.

SOCI – POST 497H – World cities and local politics (see Politics)**Reading Courses**

Both full- and half-year reading courses are available as SOCI 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

Chair of the Program

To be named

Professors

W. Lem, M.A., Ph.D. (Toronto); **J. Sangster**, B.A. (Trent), M.A., Ph.D. (McMaster) (*on leave 2006–2007*)

Associate Professors

M. Hobbs, B.A. (Trent), M.A., Ph.D. (Toronto); **C. O'Manique**, B.A. (Carleton), M.A., Ph.D. (York) (*on leave Fall term*)

Assistant Professor

C. Rice, B.A. (Harvard), M.Ed. (OISE), Ph.D. (York)

Associated Faculty

Canadian Studies: **M. Lacombe**, **S. Chivers**. *English Literature:* **S. J. Bailey**, **R. Bode**, **J. A. Buckman** (*on leave*), **C. Eddy**, **R. J. Dellamora**. *Geography:* **S. Wurtele**. *History:*

F. Harris-Stoertz. *Indigenous Studies:* **E. Maniwabwi**, **S. I. Williams**. *Politics:*

N. Changfoot, **E. Stavro**. *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 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, Indigenous 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?

Notes

- Some Women's Studies courses cross-listed with other departments and programs have pre-requisites not listed here.
- 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.
- The same course may not simultaneously satisfy the requirements of both programs in a joint-major degree.
- 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 WMST 200 for WMST 100 in the requirements for a major.

The single-major Honours program. At least 9 credits in Women's Studies, including:

- WMST 100, 201, 300
- 3 credits at the 400-level
- 3 additional credits

The joint-major Honours program. At least 7 credits in Women's Studies, including:

- WMST 100, 201, 300
- 1 additional credit beyond the 200-level
- 1 credit at the 400 level
- 2 additional credits

The joint-major General program At least 5 credits in Women's Studies, including:

- WMST 100, 201 and 300
- 2 additional credits

The single-major General program At least 6 credits in Women's Studies, including:

- WMST 100, 201 and 300
- 1 additional credit beyond the 200-level
- 2 additional credits

Please consult the academic timetable, available at www.trentu.ca/mytrent/2006-2007timetable.htm, for information on courses that will be offered in 2006-2007 including when they will be scheduled.

WMST 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.

WMST 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: WMST 100 or permission of the instructor.

WMST – IDST 210H – Women, colonialism and imperialism

This course examines how colonialism and imperialism have affected women's material conditions and gender relations; mediated relations between women of the First and the Third and Fourth Worlds; been central to how "civilizing" missions have sought to "save" women; and continued to define and regulate gender relations today. Prerequisite: WMST 100 or IDST 100.

WMST – CAST 211H – The history of feminism in Canada

An overview of the history of feminist ideas, strategies, and actions in Canada from the nineteenth century to the present. The course uncovers a rich history of diverse feminist practices, and explores debates about the intersections of gender, class, "race," ethnicity and nation in the historical construction of feminist consciousness. Prerequisite: WMST 100 or CAST 100.

WMST 212 – Women and health

This course addresses issues of importance to women as recipients and providers of health care and as subjects of health research. Students are introduced to various models of health and illness, and to the origins and theoretical underpinnings of women's health movements in Canadian and global contexts. Prerequisite: WMST 100.

WMST – CUST 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, focussing on women as active agents in production and consumption of popular culture. Prerequisite: WMST 100 or CUST 100 or permission of the instructor

WMST – IDST 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: WMST 100 or IDST 100 or permission of the instructor.

WMST – PHIL – CUST 231 – Feminist philosophy (see Philosophy)

WMST – AHCL 231H – Women in the Greek world, c. 700 – 300 B.C. (see Ancient History & Classics)

WMST – AHCL 232H – Women in the Roman world, 100 B.C. – A.D. 300 (see Ancient History & Classics)

WMST – CUST 265 – Sex/sexuality/sexual difference (see Cultural Studies)

WMST – CAST – ENGL 266 – Canadian women's writing (see Canadian Studies)

WMST – CAST 274H – Women in Canada: Region and place (see Canadian Studies)

WMST – CAST 275H – Women in Canada: Women and the arts (see Canadian Studies)

WMST – HIST 276 – Women in Britain and Europe (see History)

WMST 300 – Feminist critical thought

An examination of the development of feminist theory through classic texts and the debates those texts have inspired. The course focusses on key debates in Marxism and socialist feminism, radical feminism, postmodernism, identity politics and transnational feminism. Prerequisite: WMST 201 or permission of the instructor.

WMST – PSYC 304H – The psychology of gender (see Psychology)**WMST – ENGL 3700/3701H – Studies in Gender and literature** (see English Literature)**WMST – GRMN 314H – Studies in German Romanticism in the European context: Women writers and German Romanticism** (see German Studies)**WMST – CAST – ERST 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 students beyond first year with at least one credit in Women's Studies, Canadian Studies, or Environmental Resource Studies or permission of the instructor. Excludes WMST – CAST 397.

WMST – CAST – HIST 316 – Canadian women's history (see History)**CAST – POST 321H – Ordering world politics II: Canadian foreign policy in the 20th century and beyond** (see Politics)**WMST – GEOG – CAST 322H – Gender, society and space** (see Geography)**WMST – POST 334H – Democratic theory and practice and Feminist Critiques.** (see Politics)**WMST – POST 336H – The body politic/The body in politics** (see Politics)**WMST – SOCI 343H – Sociology of gender** (see Sociology)**WMST – SOCI 344H – Social construction of sexuality** (see Sociology)**WMST – NAST 350 – Indigenous women** (see Indigenous Studies)**WMST – PSYC 355 – Human sexuality** (see Psychology)**WMST – CAST – POST 367 – Women and politics in Canada** (see Politics)**WMST 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. 204).

WMST – SOCI 386H – 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: WMST 100 or SOCI 100 or permission of the instructor. Excludes WMST – CAST – SOCI 286 and 287H.

WMST – CAST – SOCI 387H – 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: WMST 100 or SOCI 100 or permission of the instructor. Excludes WMST – CAST – SOCI 286 and 288H.

WMST – POST 388H – The politics of gender and globalization (see Politics)**WMST 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.

WMST – HIST 3955H – History of sexuality (see History)**WMST – CAST – POST 3962H – Special topic: Feminist legal issues I**

This course offers an introduction to feminist legal issues. Focussing primarily on Canada, the course explores a variety of feminist theories about the law and feminist debates about using the law as a political strategy. A key theme in the course is the relationship between women's activism and legal change. Excludes WMST 237H. Prerequisite: WMST 100 and at least 1 of WMST 201, 212, 210H and 211H or permission of the instructor.

WMST – CAST – ENGL-NAST 397H – Writing women's stories – Native Women's Work (see Canadian Studies)

WMST – CAST – POST 3972H – Special topic: Feminist legal issues II

This course is a continuation of Feminist Legal Issues I. Focussing primarily on Canada, themes in the course will include such things as: sexual harassment; prostitution; genetics, disability and law; reproductive technology; polygamy; religion, "marriage" and law. Prerequisite: WMST 3962H or 237H.

WMST – 400 – Advanced studies in feminism**WMST 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.

WMST – ANTH 422 – Gender: An anthropological perspective (see Anthropology)**WMST – POST 430 – Feminists theorize the political: contemporary feminist philosophy** (see Politics)**WMST – CAST – POST 443 – Women, the welfare state, and globalization in Canada**

This course explores key issues and debates concerning the relation of women to modern welfare states, focussing 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. Open to third and fourth year students with at least one 300-level credit in Women's Studies. Excludes WMST – CAST 4951 and WMST 400.

WMST – CAST – SOCI 455 – The dynamics of difference: Gender, disability, and Canadian cultural representation (see Canadian Studies)**WMST – SOCI 461H – Advanced studies in the sociology of gender** (see Sociology)**WMST – CAST – ENGL 466 – Representations of the other in contemporary Canadian writing** (see Canadian Studies)**WMST 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. 204).

WMST 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.

WMST – ANTH 4932H – Special topic: Sex, 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?

WMST 496H – Feminist psychologies

Explores principles and practices of feminist psychology, theories of gender and sexual development, and the psychology of women. Focus is on feminist critiques of psychology and feminist contributions to psychology. Feminist relational, community, and narrative approaches will be emphasized. Prerequisite: WMST 201 and 300 or permission of the instructor.

WMST – CAST 497H – Women at the edge: voices from British Columbia (see Canadian Studies)**WMST – CAST 498H – Women and collective resistance in Canada: creative and spirited** (see Canadian Studies)

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 in Oshawa.

Community-Based Education Program

Trent Centre for Community-Based Education (TCCBE)

780 Argyle Street, Room # 049 and 050

Mailing address: c/o Trent University, 1600 West Bank Drive, Peterborough, ON K9J 7B8

Telephone: (705) 743-0523

E-mail: tccbe@trentu.ca

Fax: (705) 743-7170

Web: www.trentu.ca/tccbe

U-Links Centre for Community-Based Research

Box 655, Minden, Ontario, K0M 2K0

Toll Free Telephone: 1-877-527-2411

E-mail: ulinks@on.aibn.com

Fax: (705) 286-3511

Web: www.ulinks.ca

The Community-Based Education program is an innovative approach to experiential learning. It offers students the opportunity to work with community organizations in Peterborough and Haliburton Counties, to complete research and community development projects, and service placements for course credit.

The program is designed to:

- Assist community organizations with research and service activities that otherwise might not be completed.
- Provide students with "real-world" experience in their fields of study and enhance future employment prospects.
- Increase co-operation and partnership between Trent University and the broader communities it serves.

Interested organizations submit proposals requesting assistance to the TCCBE or U-Links. These requests are reviewed by a committee of representatives from the community and the University. Once approved, these opportunities are posted on the websites above for students and instructors to consider.

Courses

A community research or development 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 helps 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 projects.

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 and development projects, as well as service placements may 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 opportunities of interest and relevance. Program staff will provide project and placement details and facilitate arrangements with community host organizations.

Prerequisites

Community research projects are open to senior undergraduate and graduate students who have completed ten credits. Community development projects are open to undergraduate students who have completed five credits. For either type of project, students must have a (minimum) 75% cumulative average. Students who do not meet these requirements but wish to participate should contact the program staff. Service placements are open to all students. In all cases, community host organizations may screen students for relevant skills and/or knowledge.

Roles and Resources

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 instructors provide academic supervision, grade students' work and support students in a manner consistent with other university courses. The TCCBE and U-Links develop new projects and support those underway, provide resources and contacts, and facilitate communication among all participants. They maintain resource centres that include computer/internet access, data, archives and other reference materials about local community groups and initiatives, past projects, community-based research, and service learning. Students or faculty who wish to arrange research and educational projects and partnerships with community organizations are strongly encouraged to contact the TCCBE or U-Links.

Degree Completion Programs

Trent University offers degree completion options for students at Ontario community colleges who have successfully completed specific diploma programs. Depending on the program, students graduating with a 75% average are eligible to receive 5 credits toward the 15-credit General degree or 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.

CENTENNIAL 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 successful completion of the 3-year (36 credit) diploma program in Industrial Microbiology 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 credits 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.
- 14 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 3-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 credits 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 one 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. 14 Science credits must be completed for an Honours degree in Science.

Bachelor of Arts or Bachelor of Science – any major

Qualified students may transfer to Trent on an advanced standing basis, subsequent to the successful completion of the 2-year General Arts and Science diploma with an average of 75%; and completion of a Trent University 100-level course with a minimum grade of 60% (C); and Trent University Prep 101. The university will grant 4 unassigned credits and 1 credit for the completed 100-level Trent University course towards the completion of the 15-credit General degree.

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.
- 11 Science credits must be completed for a General degree in Science.

FLEMING COLLEGE DEGREE COMPLETION PROGRAMS**Bachelor of Arts or Bachelor of Science (any major)**

Qualified students who complete the University Transfer Option of the General Arts and Science program with an average of 70% and no grade less than 60% will be granted credits in ENGL 100, PHIL 101, PSYC 101 and SOCI 100 and will be permitted to enter a degree program at the second year level.

Notes

- Numerical grades for transfer credits will not be recorded on the Trent transcript. Completion of these credits will be recognized with a "Pass" grade.
- 11 Science credits must be completed for a General degree in Science.

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 3-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 credits 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 one of the following 3-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 3-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 credits 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 one of the following 3-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 credits 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 3-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 credits 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 3-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 credits 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 3-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 credits 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. **Error! Bookmark not defined.**)
- Diploma in Indigenous Studies Management & Economic Development, see Indigenous Studies Management & Economic Development (p. 138)
- Diploma in Indigenous Studies, see Indigenous Studies (p. **Error! Bookmark not defined.**)

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	International Political Economy
Archaeology	Law & Policy
Classical History	Linguistics
Food & Agriculture	Medieval & Renaissance Studies
Geographical Information Systems	Northern & Polar Studies
Global Studies	Teacher Education
Globalization: Communities & Identities	Travel Studies

EMPHASIS IN APPLIED ETHICS

Telephone: (705) 748-1011 ext. 5516
Fax: (705) 748-1693

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

Program Co-ordinator

Chair of the department of 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 five credits, including:

- PHIL 101 or 105
- PHIL 230
- PHIL 335 or 338
- either PHIL 239H and PHIL - COST 337H or PHIL - COST 337
- PHIL 339 or PHIL - ADMN 420 or PHIL - ERST 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."

Note

- Courses in the Archaeology program may have prerequisites. In planning their Emphasis, students should carefully take this into account.

Courses

The Emphasis in Archaeology consists of at least six credits, including:

- ANTH 212 and 310
- ANTH 300 or 315 or AHCL 330
- 1 credit from each of Categories A and B
- 1 additional credit from Category A or B or C

Category A (New World)

ANTH 311	ANTH 411
ANTH 314	ANTH 412
ANTH 371H	ANTH 413
ANTH 372H	
ANTH 375H	

Category B (Old World)

ANTH 312
 AHCL – ANTH – GEOG 223H
 AHCL – ANTH 220H
 AHCL – ANTH 226
 AHCL – ANTH 322
 AHCL – ANTH 325H
 AHCL – ANTH 334H

Category C (Methods)

ANTH 300	ANTH 414H
ANTH 315	ANTH 415H
ANTH 363H	AHCL 330
ANTH 365H	

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 (Category A of the courses in AHCL), including AHCL 100 and 201.

EMPHASIS IN FOOD & AGRICULTURE

Telephone: (705) 748-1011 ext. 1388 E-mail: thutchinson@trentu.ca

Fax: (705) 748-1624

Program Co-ordinator

T. Hutchinson, B.Sc. (Manchester), Ph.D. (Sheffield), *Environmental & 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 as the final receptor (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 the program co-ordinator 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 credits:

- ERSC 335H
- IDST – ANTH 221
- BIOL 329H

Students are also required to take an additional 3 credits from the following courses:

- ANTH 482H, 483H
- CAST – GEOG – ERST – NAST 204
- ERSC 336H, 435H
- ERSC – GEOG 365H
- ERST – CAST 334H
- Thesis (2 credits) and/or reading courses (through any department or program, provided the topic is approved by the emphasis co-ordinator)
- Community-based Education program courses (that link to food or agriculture issues and that are approved by the emphasis co-ordinator)

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.caWeb: 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/global studies from a list approved by the Global Studies Advisory Committee (available in the Trent International Program office or at www.trentu.ca/tip). Of the six approved courses at least two must be: IDST 100, HIST 170 or POST 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. 1733

E-mail: hughhodes@trentu.ca**Program Co-ordinator****Hugh Hodges**, M.A., Ph.D. (Toronto), *English*

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 focusses 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:

- POST 220, CUST – NAST 230, and ANTH 200

Plus one credit from category A and 2 credits from Category B

A

ENGL 2400

POST 320H, 326H, 336H, 420H, 428, 495

POST – IDST 350H, 351H, 423H, 427H

POST – IDST – CAST 424

POST – SOCI 323

WMST 295H

B

ANTH 408H, 409H, 450H

ANTH – IDST 301, 304, 306, 407, 475H, 476H

CAST – POST – SOCI 300

CAST – POST 440

CAST – ENGL 466

CUST 345

CUST – IDST 332
 CUST – WMST 220
 ENGL 3601H, 3603H, and 3605H, 4600
 ERST – IDST – POST 360
 ERST – IDST – POST 461H
 HIST 200, 365, 450, 465
 HIST – CAST 304
 HIST – IDST 2401H, 2402H, 2471, 3401H, 3402H
 IDST 313, 395, 4971H, 4972H
 IDST – POST 322H, 425H
 IDST – SOCI 312H, 396H
 NAST 430
 NAST – ERST 260, 363
 NAST – IDST 305, 360, 482
 SOCI 347, 382H, 480
 WMST 300
 WMST – IDST 225
 WMST – POST 388H
 WMST – SOCI 386H, 387H

EMPHASIS IN INTERNATIONAL POLITICAL ECONOMY

Telephone: (705) 748-1011 ext. 1130

E-mail: comanique@trentu.ca

Program Co-ordinator

Colleen O'Manique, M.A., Ph.D. (London), *Politics and Women's 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 an 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 Politics, as well as Anthropology, Business Administration, Canadian Studies, Environmental & Resource Science/Studies, Geography, History, Indigenous 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:

- ECON 101H, 102H, IDST 100, POST 220
- 1 credit from each of A, B, and C

A

ECON 311H, 312H, 362H, 398H
 ECON – IDST 331H, 333H
 IDST 310

B

ERST – IDST – POST 461H
 ERST – POST – CAST 460H
 HIST 250
 HIST – CAST 308
 IDST 311H
 IDST – CAST – POST 424
 POST 320H, 324H, 325H, 326H, 420H, 428
 POST – CAST 321H
 POST – IDST 350H, 351H, 350H, 351H, 423H, 425H, 427H
 POST – SOCI 323H
 WMST – POST 388H

C

ANTH – IDST 301, 304, 407
 ERST – IDST – POST 360
 HIST – IDST, 2401H, 2402H, 247, 3401H, 3402H
 IDST 200, 397H, 398H, 400, 411H, 422
 IDST – ANTH 221
 NAST – IDST 305
 WMST – IDST 225

EMPHASIS IN LAW & POLICY

Telephone: 748-1011 ext. 1210
 Fax: 748-1047

E-mail: jdriscoll@trentu.ca
 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)

CAST – HIST – POST 477
 ECON 302H, 317H, 384H
 ECON – ERST 381H
 ECON – ERST – CAST, 378H, 382H
 ERST – POST 210H
 ERST – CAST 467H
 ERST – CAST – POST 310
 ERST – IDST – POST 461H
 HIST 337H
 HIST 337
 NAST 200
 IDST – CAST – POST 424

Category B (Law)

ADMN 325H
 ERST 311H, 325H, 425H
 HIST 385
 IDST – SOCI 312H
 NAST 340
 PHIL 105
 PHIL – POST 232
 POST 268H, 367
 POST – CAST 309
 SOCI 365H
 WMST – CAST – POST 237H
 WMST – POST – CAST 238H

NAST – POST 302
 POST 100, 320H, 405, 405H, 432
 POST – CAST 201, 321H, 362, 362H
 POST – CAST – ERST 267, 267H, 460H
 SOCI 361
 SOCI 366
 WMST – CAST – POST 400

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 enables students to add to their programs a series of courses designed specifically to complement their studies in a language or languages. The basis of the program is the first-year introductory course in linguistics, and then students may choose from a variety of courses offered by Modern Languages, English, Anthropology and Ancient History & Classics which will allow them to pursue more specific interests in language and linguistics. The transcripts of students who have successfully completed the requirements of the emphasis program will contain the notation "with an Emphasis in Linguistics." To qualify for the Emphasis, students must take MLAL 101, plus three credits from among the following courses:

ANTH 231
 ENGL 3100, 4100/4101H
 FREN 215
 GREK 100
 LATN 100
 MLAL 301 (offered in Summer session only)
 MLAL – ANTH 201H, 202H, 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:

- LATN 200
- for the focus on historical studies 2 credits, and for the focus on literary studies 3 credits in any of the ENGL 31xx series, ENGL 3200 or any of the ENGL 41xx series

- for the focus on historical studies 3 credits, and for the focus on literary studies 2 credits in HIST 200, 205, 355H, 360, 380 or any credit in the Medieval or Early Modern period at the fourth-year level
- at least one of the credits at the 400-level in the discipline of focus

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:

ANTH 311
ANTH – CAST – NAST 253
ANTH – NAST 455
CAST – GEOG – ERST – NAST 204
CAST – POST – SOCI 300
*CAST – HIST 324
ERST – ECON – CAST 378H
ERST – CAST 250
ERST 257H
ERST – IDST 360

ERST – NAST 363
GEOG 342H
*GEOG – CAST 364H
GEOG – CAST – ERST 372H (replaces GEOG – CAST – ERST 203H)
HIST 370
HIST – CAST 407
HIST – CAST – NAST 425
NAST 200, 255, *481
*NAST – CAST 285
NAST – IDST 305

Students are encouraged to view online 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. 7564
Fax: (705) 748-1144

E-mail: edemphasis@trentu.ca
Web: www.trentu.ca/education/emphasis

Program Co-ordinator

M. Ladky B.A. (Denison), M.A. (University College Dublin), Dip. Ed (McGill), Ed.d (University of Toronto)

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.

Entry into the Emphasis in Teacher Education

Full time or part time students normally enter the Emphasis in their first year. Qualified students who have completed a maximum of five credits with at least a 70% average may also be eligible to enter the Emphasis. All course programs will be reviewed by the co-ordinator before admission to Education Emphasis 400.

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 fifth credit in either Curriculum or Foundational Studies or Education Emphasis 400. Curriculum Studies include at least one credit in Mathematics or Science, and at least one credit in visual or performing arts, selected from a list of designated courses. Foundational Studies include at least two credits from a list of designated courses in Psychology, Sociology, Native Studies, History, Canadian Studies and English.

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, 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 (at least 2 credits)

- at least 1 credit in Mathematics or Science selected from any Mathematics credit (or PSYC 215) or any credit in Biology, Chemistry, Environmental & Resource Science, Physical Geography or Physics that includes regular lab work (these include CHEM 150, as well as BIOL 261H and 262H, ERSC 270, MATH 280 and PHYS 209, which are designed for potential elementary teachers who lack a background in Mathematics or Science).
- at least 1 credit in visual or performing arts selected from:
 ANTH 253, 351
 CUST 211, 216, 217, 245, 270, 280, 305, 311, 315, 345, 346, 370, 375, 380, 470
 NAST 395, 3952

2) Foundational Studies (at least 2 credits)

At least 2 credits selected from: HIST 232, PSYC 202H, 225H, 227H, 281H, 307H, 308H, 323H, 381H, 383H, NAST 330, SOCI 220, 230, 334H, 370, SOCI – CAST 341H, SOCI – WMST 343H, CAST – POST – SOCI 300, HIST – CAST 232, ENGL 385.

3) Education Emphasis 400 – Learning styles and teaching children with special needs

This 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. It includes working with pupils with special needs, involving one half day per week in a primary, junior or intermediate classroom, and workshops on learning theory that are held throughout the course.

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 a minimum of five credits must be in a first "teachable" subject and a minimum of 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, Canadian Studies, History and English. and either a third credit from the same list of courses or Education Emphasis 400. 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 (at least 2 credits)

At least 2 credits selected from: HIST 232, PSYC 202H, 225H, 227H, 281H, 307H, 308H, 323H, 381H, 383H, NAST 330, SOCI 220, 230, 334H, 370, SOCI – CAST 341H, SOCI – WMST 343H, CAST – POST – SOCI 300, HIST – CAST 232, ENGL 385.

3) Education Emphasis 400

See above.

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: ANTH – CAST 408H, ANTH – CAST 409H, GEOG 231H, 337H, SOCI 451H, 480 (when taught by A. Heitlinger), ENGL 470.

During their third or fourth year students must earn at least two credits in a major research project focussed 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 degree in 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, Australia, 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), Indigenous Studies (Thailand), Politics (Germany) and Physics & Astronomy (England). TIP also provides information on some short term programs abroad; see www.trentu.ca/tip.

INTERNATIONAL ENTRANCE SCHOLARSHIPS

Trent International Program Scholarships enable outstanding 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

E-mail: tip@trentu.ca

Fax: (705) 748-1626

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. Bennett 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)

Students may also choose to study abroad to enrich and internationalize their Trent degree. (see Study Abroad Opportunities).

TRENT-ESL: ENGLISH FOR UNIVERSITY

Telephone (705) 748-1805
Fax (705) 748-1830

Email: esl@trentu.ca
Web: www.trentu.ca/esl

TRENT-ESL Co-ordinator

F. Capogna, M.A. (London)

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 CB score of 237, PB score of 580, iBT score of 90 with minimum of TWE score of 4.5 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 students can proceed to full-time degree studies. Students may begin in the ESL program in September, January or May.

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, immigration issues, consumer services, academic challenges and residential life.

STUDY ABROAD OPPORTUNITIES

Trent students are encouraged to spend a summer, term or full academic year of their undergraduate degree 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, Jamaica, Trinidad, Barbados, Spain, France, Germany, Hungary, South Africa, Mauritius, the Czech Republic, Malaysia, South 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 program. Trent students are also able to apply for Summer Service-learning placements at agencies in Botswana under the supervision of WUSC.

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 a year abroad should begin in first year. The formal process begins in the Fall term of the students' second year, when they attend TISEP Information Sessions and the Work Study Abroad Fair, and fill out application forms which are available at the TIP office and on-line. The deadline for submitting an application is February 1. Applications are reviewed and approved by the TISEP Advisory Committee and, subsequently, successful applications are forwarded for consideration by host universities. Students are notified by mid-March of their acceptance. Placement of students 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 of the study abroad program, all pre-approved courses may be counted towards the student's Trent degree.

TRENT GLOBAL LIVING COMMUNITY

International and Canadian students may choose to augment their TIP experience by choosing to live in the "Trent Global Living Community." TGLC is a residence space specifically for students who want to learn about different cultures and traditions by living and learning with people from all over the world. Learn more about TGLC by contacting the Trent International Program or the Housing Services office.

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 speaker events, 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 close ties with TIP. These include: Students Association in International Development (SAID); Hispanic Organization of Latin Awareness (HOLA); Helping Other People Everywhere (H.O.P.E.); Kawartha World Issues Centre (KWIC), a local global educational NGO; Ontario Public Interest Research Group (OPIRG); South Asian Students Association At Trent; South East Asian Students at Trent; Trent African and Caribbean Students' Union (TACSU); Trent Chinese Students Council (TCSC); Trent European Association; Trent Japanese Association (TJA); Trent Jewish Students' Association (TJSA); Trent Muslim Students Association (TMSA); Chinese Students Association; 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 (p. 166).

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 (p. 115), an Emphasis in Geographical Information Systems and a Special Concentration in Museum Studies (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 either GIS Application Specialist or GIS Cartographic Specialist Ontario College Graduate Certificates 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. Students who successfully complete all three semesters of the GIS Application Specialist or GIS Cartographic Specialist program with a minimum grade of 60% in all courses will receive the corresponding Ontario College Graduate Certificate along with seven credits in Geography or Environmental & Resource Science/Studies at the 300-level. They then must complete three credits in their fourth year to fulfill the requirements of the single major or joint-major degree, as outlined in the specific degree program requirements. "Emphasis in GIS (Applications)" or "Emphasis in GIS (Cartography)" will be noted on their Trent transcript. Students who successfully complete semester 1 and 2 of the GIS Application Specialist or GIS Cartographic Specialist program with a minimum grade of 60% in all courses will receive five upper-level Science or Arts Trent credits of which three will count as 300-level credits in their major and two will count as unassigned 300-level Science or Arts credits. These students will

receive an "Emphasis in GIS" that will be noted on their Trent transcript. These students are eligible to return to Fleming following completion of their Trent honours degree to complete the requirements for the GIS Application Specialist or GIS Cartographic Specialist Ontario College Graduate Certificates.

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 online.
- 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 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 GEOG – ERSC 209H and at least one credit from Computer Science/Studies.

All Geography majors should have successfully completed GEOG – ERSC – BIOL 208H and either GEOG 211H or GEOG – ERST 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 for the year they have been accepted into the Program. Students who complete the three-semester college certificate with a minimum average of 72% will receive up to four upper level "general elective credits" (p. 230) which are credited towards a Trent Honours degree, but do not fulfil specific departmental requirements.

Application procedures

- Application is made to the Senior Tutor at Julian Blackburn College. An information session for the program will be held in early January. If intended applicants cannot attend this session, they should contact the Chair well in advance of the deadline 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 at least 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 31, 2007 for the program beginning in September, 2007.
- Students are informed of the result of their application before the deadline for Early Registration at Trent.
- 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, at Fleming from the Admissions Office or online.
- Students are required to pay the appropriate fee to the Ontario College Application Service in Guelph.
- Students enrolled in the Museum Studies 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 for the year of the program (consult the Fleming calendar for details on fees).

Facilities

Students in the program have access to the library and faculty at Trent. Contact the Senior Tutor at Julian Blackburn College (jbcstac@trentu.ca, 748-1011 ext. 1270) for details.

Further information

For further information, contact the Senior Tutor at Julian Blackburn College (jbcstac@trentu.ca).

Julian Blackburn College: Part-Time Studies and Oshawa

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 online 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

Fax: (705) 748-1007

Oshawa: (905) 721-3003 or (905) 721-3107

E-mail: jbc@trentu.ca

Web: www.trentu.ca/jbc

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; Manager, Continuing Education

K. Maki, B. Comm., M.Sc. (Guelph)

Administrative Assistant

T. Menzies, B.A. (Trent), M.A. (Western Ontario)

Administrative Secretary

D. O'Dette

Senior Tutors and Academic Counsellors

E. Hurley, B.A. (Trent), M.A. (Queen's), B.Ed. (OISE/Toronto), **M. Fenwick**, B.A., M.A. (Ottawa), Ph.D. (Queen's)

Trent University (Oshawa) Information Co-ordinators

J. Milovick, B.A. (Trent); **S. Gunn**

Julian Blackburn College, a non-residential facility, coordinates 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), degree completion options at several Ontario community colleges (see degree completion programs, p. 205) and Continuing Education at Trent.

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 online 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 *Admissions, Application and Registration* and the *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 in Oshawa

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

Brochures for part-time and off-campus studies, which are 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 Indigenous 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 Student Association of the University of Ontario Institute of Technology and Durham College. For further information, contact the JBCSA Executive Director at (705) 748-1380 or the UOIT-DC Student Association Vice-President of Trent at (905) 721-0457 or SAVPofTrent@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.

Students may choose to follow a Special Concentration program in one of three ways:

1. within Global Studies (p. 125)
2. as a joint program with Fleming College in Museum Studies (p. 223)
3. as an individual program, with the approval of the Committee on Undergraduate Standings and Petitions (CUSP).

Students choosing the third option should note the following guidelines:

- 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 must apply for the program. The application must include a rationale for their choice of courses, including reasons why their proposed program of study cannot be accommodated within an existing major or joint-major program, and must identify the remaining courses required.
- Students must discuss their intended program with the Senior Tutor of their college, before the end of the first year of studies. The Senior Tutor will provide advice, ensuring that the program meets the University's degree requirements, and that approval from the academic departments or programs concerned is obtained. Students who have completed five credits may be considered retroactively for a Special Concentration Program.
- The Senior Tutor and the student must then meet with CUSP for approval of the program. Once approved, any changes must be discussed with the Senior Tutor and reviewed by CUSP.
- The Special Concentration program 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. 50); Indigenous Management & Economic Development (p. 138)
- **Cultural Studies:** Image, Sound & Performance; Writing & Narrative; Film, Video & Media; Social Thought (p. 76)
- **Environmental & Resource Science/Studies:** Ecological Management (p. 108); Environmental Politics, Policy & Law (p. 108); Environmental Toxicology (p. 108); Indigenous Environmental Studies (p. 108)
- **French Studies:** Québec Studies (p. 159)
- **Indigenous Studies:** Indigenous Environmental Studies (p. 137); Indigenous Management & Economic Development (p. 138)

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. 146)
- Year Abroad in France. See Modern Languages & Literatures, French Studies section (p. 157)
- Year Abroad in Germany. See Modern Languages & Literatures, German Studies section (p. 157)
- Year Abroad in Ghana. See International Development Studies (p. 146)
- Year Abroad in Spain. See Modern Languages & Literatures, Hispanic Studies section (p. 157)
- Year Abroad in Thailand. See Indigenous Studies (p. 139)

ADMISSIONS, APPLICATION AND REGISTRATION

Telephone: (705) 748-1215

E-mail: registrar@trentu.ca

Fax: (705) 748-1629

Web: www.trentu.ca/admissions

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

Trent University welcomes applications from Canadian and international students. Confirmation of an admission offer is required before students may register in courses. The same admission requirements, application and registration procedures, and deadlines apply to study in Peterborough, Oshawa and other locations.

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*.

Degree and Diploma Programs

Trent University offers the following degree and diploma programs:

Degree Programs

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

Diploma Programs

Canadian Studies
Indigenous Environmental Studies
Native Management & Economic Development
Indigenous Studies

Notes

- The Honours Degree programs and the Bachelor of Science Degree programs in Nursing and in Forensic Science are four year programs.
- The General Degree programs are three year programs.
- The Diploma programs are one or two year programs.
- For information about Degree and Diploma programs see the relevant academic programs section of this Calendar.
- For information about the Consecutive Bachelor of Education program please refer to p. 87 of the calendar.
- For information about the Emphasis in Geographical Information Systems and the Special Concentration in Museum Studies, which are offered jointly with Sir Sandford Fleming College, see Joint Programs with Sir Sandford Fleming College (p. 222).

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.

Minimum admission requirements

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 minimum admission requirements outlined are for general admission to the Faculty of Arts and Science at the University. Some programs have additional assessment criteria.

English Proficiency 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 92 IBT, 580 PBT or 237 CBT with a minimum TWE score of 4.5 (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, with no part below 80 (but see gradual admission below).
- IELTS (International English Language Testing Services). The minimum acceptable score is 6.5, with no band lower than 6 (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 below the acceptable minimums are invited to apply for gradual admission through Trent-ESL: *English for University* 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).

The University's Right to Deny Admission

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. 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.

The University's Right to Offer Part-time Admission to Full-Time Applicants

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.

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 submit a supplementary application outlining academic qualifications, experience and evidence in support of their likely success at university. The supplementary application form can be found at: www.trentu.ca/registrar/choose.html. 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.

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 submit a supplementary application outlining academic qualifications, experience, reasons for wanting to study at Trent and any further evidence in support of their likely academic success at university. The supplementary application form can be found at: www.trentu.ca/registrar/choose.html. 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.

Transfer Credits

Transfer credits are credits that may be granted to a student prior to the commencement of their studies at the University. Trent University may recognize academic work completed previously at another accredited university or college by granting Advanced Standing or Transfer Credit, provided that the studies previous studies are equivalent in their content and rigour. Advanced Standing and Transfer credit may also be granted for some standardized advanced high school programs (see Admission from Secondary Institutions for details).

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 session at Trent, or within three weeks after receipt of the official transfer credit notification. 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.

ADMISSIONS FROM SECONDARY INSTITUTIONS

Canadian High Schools. Please review the chart on p. 232 for a detailed description of minimum requirements and prerequisites for admission from a Canadian Secondary school.

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.

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 five (5) 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. 230).

General Certificate of Education (GCE)

All applicants who have completed the General Certificate of Education (or equivalent) under the British system of education are required to pass at least five Ordinary Level subjects and two Advanced Level subjects with grades of C or better, or at least four Ordinary Level subjects and three Advanced Level subjects with grades of C or better. Two Advanced Subsidiary subjects may be substituted for one Advanced Level subject. A grade of C or better in O-Level English is required to satisfy the English proficiency requirement.

Advanced level subjects with grades of C or better will be considered for Advanced Standing or transfer credit, to a maximum of 5 credits (one year of full-time study).

Other International Systems. Students studying outside Canada who have achieved admission levels for universities in their own country will be considered for admission on an individual basis. For information regarding country-specific admission requirements visit www.trentu.ca/tip or contact the Office of the Registrar.

Advanced Placement Program (see p. 234).

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 12-1 or 12-2 (or French 12-1 or 12-2) and at least four additional academic courses at the 12-1 or 12-2 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 12-1 or 12-2, Chemistry 12-1 or 12-2	Biology 3201 and Chemistry 3202
Biology	Biology 30	Biology 12	Biology 40S	Biology 12-1	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 12-1 or 12-2, Math 12-1	Chemistry 3202, Math 3201 or 3203
Chemistry	Chemistry 30	Chemistry 12	Chemistry 40S	Chemistry 12-1 or 12-2	Chemistry 3202
Computing & Physics	Math 30, Pure Math 30 or Math 31	Math 12	Math 40A or Math 40S	Math 12-1	Math 3201 or 3203
Education (Concurrent)	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 online 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 12-1 or 12-2	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 12-1, Chemistry 12-1 or 12-2, Math 12-1	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 12-1	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 12-1, Chemistry 12-1 or 12-2, Math 12-1	Biology 3201, Chemistry 3202, Math 3201 or 3203
Physics & Astronomy	Math 30, Pure Math 30 or Math 31	Math 12	Math 40A or Math 40S	Math 12-1	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 166 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.
- Students applying to the Nursing B.Sc. or Forensic Science B.Sc. program should be aware that their English, Biology, Chemistry and Math grades will be used as part of the admission calculations.

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
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 online 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	ENG4U, SBI4U, SCH4U and one 4U 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 one 4U 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

Advanced Placement (AP) Program

Offered in high schools worldwide, the Advanced Placement Program provides motivated students with the opportunity to take some university level courses while still in high school.

All applicants who have completed Advanced Placement courses from the College Board are required to submit their examination results for evaluation. Advanced standing or transfer credit will be granted for most Advanced Placement courses with examination grades of four (4) or better, to a maximum of 5 credits (one full year of study).

Advanced Placement Course Equivalencies

AP Course Name	Trent Equivalency	Credit Value
Art History	Arts general credit (year1)	1.0
Art Studio (Drawing)	Arts general credit (year1)	1.0
Art Studio (General)	Arts general credit (year1)	1.0
Biology	BIOL 102H and 103H	0.5 + 0.5
Calculus AB	Science general credit (year 1)	1.0
Calculus BC	MATH 110	1.0
Chemistry	CHEM 100	1.0
Comp. Gov. & Politics	Politics unassigned (year 1)	0.5
Computer Science A	COSC 102H	0.5
Computer Science AB	COSC 102H and 104H	0.5 + 0.5
Macroeconomics	ECON 102H	0.5
Microeconomics	ECON 101H	0.5
English Language	no credit	0
English Literature	Arts general credit (year 1) *	1.0
Environmental Science	Environmental & Resources Science unassigned (year 1)	1.0
French Language	Arts general credit (year1) *	1.0
French Literature	Arts general credit (year1) *	1.0
German	GRMN 105	1.0
History – American	History unassigned (year 1)	1.0
History – Europe	HIST 120	1.0
Latin	LATN 100	1.0
Music Literature	Arts general credit (year 1)	1.0
Music Theory	Arts general credit (year 1)	1.0
Physics B	Science general credit (year 1) *	1.0
Physics C – Electricity	Science general credit (year 1) *	0.5
Physics C – Mechanics	Science general credit (year 1) *	0.5
Psychology	PSYC 101	1.0
Spanish Language	Arts general credit (year1) *	1.0
Spanish Literature	Arts general credit (year1) *	1.0
U.S. Government	Politics unassigned (year 1)	0.5

Notes

- Students may receive appropriate assigned course equivalency following an individual placement interview with the Chair of the department.
- 1.0 credit equals one full course; 0.5 credits equal one half course.

ADMISSIONS FROM POST-SECONDARY INSTITUTIONS

Please refer to Notes on Transfer Credit and Advanced Standing (p. 230).

Canadian Universities. 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.

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.

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.

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.

Foreign Post-Secondary Institutions. Students applying for admission to Trent University from an accredited university degree, college diploma or associate degree program outside Canada will be considered for admission following the completion of at least one semester of study with a minimum B- average (2.7 gpa) on academic courses. Admission consideration is based on the student's overall academic background including secondary school results. Enrolment is limited and the University will select the most qualified candidates for admission. Transfer credit to a maximum of 10 credits (the equivalent of two years of full-time study) may be granted depending on course content and marks. Applicants holding a first degree may be admitted to undergraduate studies to undertake a second undergraduate degree. Applicants may not undertake a second degree in the same major as their first degree.

Second Degree

Students who have successfully completed a degree are not eligible to receive a second degree at the same or lower level in the same subject area(s). Ten credits (the equivalent of two years of full time study) may be transferred for credit towards a second degree.

Students who hold a Trent degree and wish to pursue a B.A., B.Sc. or B.B.A. as a second degree 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.

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 year 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 2006 fee for application for re-admission is \$25 and is payable directly to Trent University.

Second Trent Degree

Students who hold a Trent degree wishing to pursue a second B.A., B.Sc. or B.B.A. 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.

Students who have successfully completed a degree are not eligible to receive a second degree at the same or lower level in the same subject area(s).

Special Students

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 (p. 240) must also submit an approved Letter of Permission from their home institution. Special Students are not evaluated for transfer credit.

Application Procedures

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 11
- Part-time admission for September entry: August 8
- Admission for January entry: December 8
- Admission for Summer session May entry: April 13
- Admission for Summer session July entry: June 20

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.

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 online at www.compass.ouac.on.ca

For entry in September 2006, the Ontario Universities' Application Centre fees are:

- \$100 for applications originating in Ontario (current Ontario secondary school)
- \$105* for applications originating in the rest of Canada (all other domestic applications)
- \$105** for applications originating from outside Canada.
 - * A \$50 supplementary "document evaluation fee" is required in addition to the application fee
 - ** A \$60 supplementary "document evaluation and courier fee" is required in addition to the application fee

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 online 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 2006 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 Indigenous 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-March for September 2006 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 Proficiency 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.

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.

Registration Procedures

Fall/Winter Session

The Fall/Winter Session consists of three terms: the Fall term, which begins in September and ends in December; the Winter term, which begins in January and ends in April; the Fall/Winter term, which begins in September and ends in April.

Summer Session

The Summer session consists of 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 in the Summer session. Details of these courses are available from the departments concerned.

Application 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. Students can register using My Trent!. Please refer to the *University Diary* for application and registration deadlines.

Students New to University Studies

New students will be invited to attend a New Student Orientation session in July or August. This will be an opportunity for students and parents to obtain more information about Trent University and provide an opportunity for students to register in courses. 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. 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 the due date.

New Part-time Students

Students new to university study, as well as transfer and readmit students, will be provided with instructions on how to register using the web-based registration system. Students can also 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 the due date.

Students are required to finalize their course selection and submit any changes by the due date. A late fee of \$25 per course will be applied for full course additions made after the deadline.

Continuing Students (full-time and part-time)

Continuing students are required to register in June for the following Fall/Winter session. Students also must register in all half-courses, whether offered in the Fall or Winter sessions, by this date. The minimum late fee for registration after the submission date is \$50 for part-time students and \$100 for full-time students. Students who do not have access to My Trent! in June, can submit a course preference form to the Office of the Registrar before the end of May. Please note that this registration service will be provided in the student's normal registration period and courses lacking the required prerequisites will not be added.

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. Attending courses does not constitute official registration; students are required to register by the required due date. Students who have not registered by the due date will not receive a mark for the work completed and will not receive credit for the course.

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.

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 the due date. A \$100 late fee is applied to students' accounts for registration after the due date. A late fee of \$25 per course will be applied for full course additions made after the due date.

Transfer students are invited to attend Introductory Seminar Week.

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 for a year abroad should be made through the Trent International Program office. International Letters of Permission should be made through the Office of the Registrar. 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 by the due date. For Summer Session, applications must be received no later than two weeks after Spring Convocation. Allow 10 working days for processing. There is a \$30 processing fee which must be submitted with the completed application form. 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 up to one credit 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).

Official Results of Letter of Permission

Students are required to make arrangements to have an official transcript or proof of withdrawal forwarded to the Office of the Registrar upon completion of the course. Failure to do so will result in a mark of zero on the student's transcript.

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 via My Trent! 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 Overload Request* 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 preregistration.

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 to Registration

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. 250) 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 probation at the completion of the Fall/Winter session, will be restricted to a part-time course load.

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 August 18, 2006. (The due dates are under review for 2006–2007 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 are due no later than January 15, 2007. If a student decides to pay in two instalments, a \$60 instalment fee (non refundable) 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, 2006 for full-time students (date under review for Ontario secondary school 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 15, 2007, 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 and payment on line (credit card) www.trentu.ca/finance (Visa, MasterCard, American Express), cheque or money order. Mail to, or pay in person by debit card or cash at: Student Accounts Office, 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 cancelled. 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 2005–2006 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 full courses or less) pay one-fifth of the full-time tuition fee for each full course registered. In 2005–2006 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 2005–2006 these fees were: (subject to change in 2006–2007)

Athletics	\$	142.26
Athletic Expansion		50.00
Health Services		34.00
Transportation		236.90
College Activities		220.50
Convocation		13.77
Introductory Seminar Week		45.00 (new and transfer students)
Campus Card		9.00

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 2005–2006 these fees were (subject to change in 2006–2007):

College Activities	\$	33.46	per full course
Student Services		52.29	per full course
Part-time Student Card		9.00	

Part-time students can purchase bus passes at any time during the academic year. The September 2005 price was \$236.90.

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 2005–2006, the program fees were: (subject to change in 2006–2007)

College Activities	\$	33.46	per full course
Student Services		30.65	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 \$30 for the academic year.

Residence Fees (reviewed every year)

Residence accommodation and meal plans are available to full-time students. Part-time students may be offered accommodation if it is available.

In 2005–2006 traditional single room accommodation ranged from \$7943 to \$9167 for room and meal plan. Double room accommodation ranged from \$6983 to \$7329. A limited number of apartments are also available at varying prices. More information about rates and residence accommodation is available at www.trentu.ca/housing. Rates include a furnished room, meal plan, telephone installation and telephone monthly line rental beginning in September and ending after final exams in April. Move-in and move-out dates are announced annually.

Returning and Graduate Student applications for upper year students and graduate students are released in December of each year. Students assigned residence for Fall must submit a post dated cheque for advance payment dated no later than May 31, 2006 for \$500 to hold their space in residence. In addition to the application form, non-refundable application fee of \$20, and advance payment of \$500 is required for a complete application. Returning students must be considered to have good academic, college, disciplinary and financial standing with the University for their application to be accepted. These applications are available online as well as at the Housing Services Office, Blackburn Hall #108.

New full-time applicants to the University must apply for residence. The application is available online and is also mailed with the offer of admission to the University. A prospective student's application is not considered complete if any one of the following 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. An advance payment of \$500 to hold the

space will be due two weeks after the residence assignment letter is sent to the student.

For returning and new students, the \$500 advance payment is applied to their student account as payment towards the residence and meal fees.

Meal Plan Fees

The University's room and meal plan fees include the cost of a full meal plan for the academic year commencing at dinner on Labour Day.

There are multiple styles of meal plan depending upon the college residence in which a student lives. Regardless of the type of meal plan, any student is able to eat at all college dining halls and at Bata Library.

New Students: A Flex Dollar (declining balance) meal plan is available at Champlain College and Otonabee College. A combination of a set number of Board meals/week and Flex Dollars is available at Lady Eaton College, Trill College and Gzowski College at Symons.

Returning Students: Returning students may select any college meal plan they prefer.

Off-Residence Students: Non-residential, declining balance meal plans are available for students not living in residence. The minimum amount is \$50 and increases can be purchased in increments of \$25. All food service locations are available to off-residence students and larger plans can be purchased.

Meal plans are non-transferable.

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 2005–2006 included the following (subject to change in 2006–2007):

Levies

Trent Music Society	2.50	TCSA Dental	112.00
Int'l Scholarship Fund	5.00	OPIRG	9.00
Emergency First Response	3.50	OXFAM	3.00
Trent Students For Literacy	2.00	College Pubs	2.00
Trent Annual	18.00	TCSA	24.28
W.U.S.C	3.14	TCSA Club Funding	4.00
		College Cabinet/Council	12.75
TCSA Health Plan	127.00	Cdn Fed of Students	7.32
Theatre Trent	3.00	CDN Fed / Ontario	6.10
Trent Radio	15.00	Arthur	9.50
Women's Centre	2.75	Trent Film Society	3.00
Int'l Student Assoc.	1.50	KWIC	4.00
Trent Nature Areas	2.00	Trent Pubs	3.00
Sexual Violence Support	3.00	Trent Queer Collective	1.50
Seasoned Spoon Café*	2.10	Trent Child Care	2.00
Shinerama	0.50	Absynthe Newspaper	4.00
Student Facility	23.03		
		Total	421.47

* 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 (subject to change in 2006–2007)**Ancillary Fees**

College Fee	\$ 220.50
Student Health	17.00
Athletics	71.13
Athletics	50.00
Transportation	236.90
Convocation	13.77
Information Technology	108.00
Student Support Service	122.00
CNSA Membership	5.00
Alumni	18.00
PS & WC Membership	100.00
Campus Card	9.00
Total	\$ 971.30

ID card for Placements 8.00
(new students only)

\$ 979.30

Music Society	\$1.25	Trent CSA Club Funding Levy	2.00
International Scholarships	2.50	College Cabinet/Council Fees	6.37
Emergency First Response	1.75	Can. Fed. Of Students	7.32
Literacy	1.00	Can. Fed. Of Students – Ont.	6.10
Trent Annual	9.00	Arthur	4.75
W.U.S.C.	1.57	Trent Film Society	1.50
TCSA Health Plan	127.00	Kawartha World Issues Centre	2.00
Theatre Trent	1.50	Trent Pubs	1.50
Trent Radio	7.50	Trent Queer Collective	0.75
Women's Centre	1.38	Shinerama	0.25
International Student Assoc.	0.75	Student Facility	11.52
Trent Nature Areas	1.00	Trent Child Care	1.00
Sexual Violence Support	1.50	Absynthe Newspaper	2.00
Seasoned Spoon Café	1.05	Student Association Activity	37.00
TCSA Dental Plan	112.00	Athletics	28.00
O.P.I.R.G.	4.50	Building Fund	25.00
OXFAM	1.50		
College Pubs	1.00		
Trent Central Student Assoc.	12.14		

Total Student Levies \$426.95

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 2005–2006 the health insurance fee was \$528.00 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 in 2006–2007)

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 in 2006–2007)

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 (2005–2006) per full course (subject to change) and pay no compulsory ancillary fees.

Other Fees (subject to change in 2006–2007)

Additional fees at 2005–2006 levels (subject to change in 2006–2007) (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
Foreign university placement	175.00
Late college transfer application	100.00
Late convocation application fee	25.00
Trent International Program: Exchange application	200.00
Late fine payment	20.00
Late registration fee:	
Full-time students: before July 31	100.00
after July 31	200.00
Part-time students: before July 31	50.00
after July 31	100.00
New/re-admit students: after deadline (full-time)	100.00
after deadline (part-time)	50.00
Late second instalment payment	75.00

Letter of Permission for courses at other Universities	30.00
Library fines for overdue books and lost material	various
Microfilming fee	35.50
Parking permits: (blue)	(pro rated) 180.00
(green)	38.00
Rental of library study carrels	4.00
Replace bus pass: Fall session	pro rated schedule
Winter session	pro rated schedule
Replacement of library card	5.00
Replacement of lock	200.00
Replacement of mail box key	25.00
Replacement of residence key	25.00
Replacement of student I.D. card	15.00
Replacement of tax tuition form: current session	8.00
previous session	18.00
Returned cheque fee	40.00
Short-term loan application	10.00
Termination of residence contract	412.00
Thesis binding fee	11.90
TIP camp activity fee	175.00
Transcripts – per copy: normal service	8.00
24 hour service	25.00
Vehicle licence search	20.00
Year Abroad Program Fees (non-refundable):	
Ecuador	3,300.00
France	1,000.00
Germany	1,100.00
Ghana	3,300.00
Spain	1,500.00
Thailand	3,400.00

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

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 (Refund/Withdrawal Schedule)

www.trentu.ca/finance

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 Student Accounts Office of the proportionate refund of fees. The Student Accounts Office will not process a refund until it has received the student's identification card and Withdrawal Form. Full-time students who drop 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 dropped courses.

Part-time students who wish to withdraw are required to notify the Office of Julian Blackburn College in writing. The date the student's notice is received by the Office of Julian Blackburn College becomes the effective date of course withdrawal and the date used by the Student Accounts Office to calculate the fee refund.

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 18, 2006 (subject to change in 2006–2007) 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 15, 2007 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 c/e-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 and return a release waiver with the fee invoice and payment of fees.

SCHEDULE OF FEES

To assist students in their financial planning, a fee schedule, based on 2005–2006 rates, is included. The actual fees for the 2006–2007 academic year will not be available until March or April 2006 after they have been approved by the University's Board of Governors.

Full-time Student Fees (subject to change in 2006–2007)

(Domestic and International Students)

	Full-time Domestic	Full-time International
Course tuition	4,184.00	11,360.00
Ancillary	706.43	706.43
Student levies	421.47	421.47
Foreign Health Insurance Plan (UHIP)	0.00	528.00
Total	\$ 5,311.90	\$ 13,015.90

Trent/Fleming Nursing Program Fees (subject to change in 2006–2007)

Course tuition	4,184.00
Ancillary	971.30
Student levies	426.95
Total	\$5,582.25

<i>If paid by instalment:</i>	<i>Full Time Domestic</i>	<i>Full Time International</i>	<i>Full Time Nursing</i>
First instalment	\$3,416.00	\$8,249.00	\$3,580.00
Second Instalment	\$1,955.90	\$4,826.90	\$2,062.25
* new students add \$45.00 for Introductory Seminar Week to total of first instalment.			

- International students pay an additional \$7176.00 (2005–2006 rate) in tuition fees. International students also pay \$528.00 (2005–2006 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 (2005–2006 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 (non refundable)
- Students who do not meet the January 15, 2007 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 2005–2006 (Subject to change for 2006–2007)

Champlain Single Room with 2250 Flex Plan	\$7,943
Champlain Apartment Suite (Double Bedroom) with 1500 Flex Plan	5,846
Lady Eaton Single Room with 16 meals/400 Flex Plan	8,289
Lady Eaton Double Room with 16 meals/400 Flex Plan	7,329
Lady Eaton Apartment (Single Bedroom) with 1500 Flex Plan	7,027
Lady Eaton Apartment (Double Bedroom) with 1500 Flex Plan	5,965
Otonabee Single Room with 2250 Flex plan	7,943
Otonabee Double Room with 2250 Flex plan	6,983
Otonabee Apartment (Single Bedroom) with 1500 Flex Plan	7,027
Otonabee Apartment (Double Bedroom) with 1500 Flex Plan	5,965
Catharine Parr Traill Single Room with 12 meals/600 Flex Plan	8,239
Catharine Parr Traill Double Room with 12 meals/600 Flex Plan	7,277
Catharine Parr Traill Triple Room with 12 meals/600 Flex Plan	6,395
Catharine Parr Traill Apartment (Double Bedroom) with 1500 Flex Plan	6,082
Peter Gzowski at Symons Campus Single Room with 12 meals/600 Flex Plan	9,197

Refund Schedule for 2005–2006 (subject to change in 2006–2007)**Full courses 2005–2006 or full-time Peterborough students**

<i>Period start and end date</i>	<i>Tuition and Ancillary</i>
Sep 12 Sept. 30	\$300 tuition deposit – non-refundable – balance refunded
Oct. 01 Oct. 31	75% refund of tuition and ancillary
Nov 01 Jan 09	40% refund of tuition and ancillary
Jan 10 Feb 14	20% refund of tuition and ancillary
after Feb 14	no refund on full courses

Half courses – Fall (per course billed students)

<i>Period start and end date</i>	<i>Tuition and Ancillary</i>
Sept. 12 Sept. 30	\$100 tuition deposit – non-refundable – balance refunded
Oct 01 Oct 18	75% refund of tuition and ancillary
Oct 19 Oct 30	40% refund of tuition and ancillary
Oct. 31 Nov 11	20% refund of tuition and ancillary
after Nov 11	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 09 Jan 27	\$100 tuition deposit – non-refundable – balance refunded
Jan 28 Feb 14	75% refund of tuition and ancillary
Feb 15 Feb 26	40% refund of tuition and ancillary
Feb 27 Mar 10	20% refund of tuition and ancillary
after Mar 10	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.

2005 Summer Refund Schedule (subject to change in 2006)

		100% *	75%	50%	25%	0%
8 Week Session	Full Course	May 1	May 2 –	May 14 -	May 28 -	
	Final Date		May 13	May 27	June 10	June 11
	T1 A Half Course	May 1	May 2 –	May 7 -	May 14 -	
	Final Date		May 6	May 13	May 18	May 19
12 Week Session	T1 B Half Course	May 31	June 1 -	June 7 -	June 14 -	
	Final Date		June 6	June 13	June 17	June 18
	Full course	May 1	May 2 –	May 18 -	June 3 -	
	Final Date		May 17	June 2	June 16	June 17
6 Week Session	T2 A Half Course	May 1	May 2 –	May 11 -	May 20 -	
	Final Date		May 10	May 19	May 26	May 27
	T2 B Half Course	June 14	June 15 -	June 25 -	July 5 -	
	Final Date		June 24	July 4	July 13	July 14
Reading Courses	Full course	July 3	July 4 -	July 12 -	July 19 -	
	Final Date		July 11	July 18	July 25	July 26
	T3 A Half Course	July 3	July 4 -	July 8 -	July 12 -	
	Final Date		July 7	July 11	July 13	July 14
Field Courses	T3 B Half Course	July 26	July 27 -	July 30 -	Aug 2 -	
	Final Date		July 29	Aug.1	Aug 5	August 6
	Reading Courses	July 3	July 4 -	July 12 -	July 19 -	
	Final Date		July 11	July 18	July 25	July 26
	ANTH 300-BZ-	May 6	May 7 -	May 17 -	May 24 -	
	Final Date		May 16	May 23	May 31	June 1
	ANTH 300 Ontario	May 15	May 16 -	May 24 -	May 31 -	
	Final Date		May 23	May 30	June 3	June 4
WEB Courses	ANTH CLCI Tunisia	May 5	May 6 -	May 14 -	May 24 -	
	Final Date		May 13	May 23	May 31	June 1
	ANTH 330 B Crete	May 26	May 27 -	June 7 -	June 16	
	Final Date		June 6	June 15	June 24	June 25
	BIOL 386	May 28	May 29 -	May 31 -	June 2 -	
	Final Date		May 30	June 1	June 3	June 4
	BIOL 387	July 23	July 24 -	July 26 -	July 28 -	
	Final Date		July 25	July 27	July 29	July 30
WEB Courses	ERSC BIOL 488 H ON	July 23	July 24 -	July 26 -	July 28 -	
	Final Date		July 25	July 27	July 29	July 30
	GEOG-CAST ERSC	June 12	June 13 -	June 17 -	June 21	
	Final Date		June 16	June 20	June 22	June 23
WEB Courses	NAST 390	May 1	May 2 –	May 7 -	May 12 -	
	Final Date		May 6	May 11	May 15	May 16
	CAST 398H	August 7	Aug. 8 -	Aug. 11 -	Aug. 16	
	Final Date		Aug. 10	Aug. 15	Aug. 17	Aug. 18
WEB Courses	NAST 495	August	Aug. 22	Aug. 25 -	Aug. 28	
	Final Date		Aug. 24	Aug. 27	Aug. 29	Aug. 30

* Less handling charge of \$70.00 for full withdrawals

** Student Government fees are non-refundable after first day of classes

*** Switching Courses: Summer students can switch between 8 week and 12 week courses with no penalty – as long as courses are dropped/added on same day. Courses must be "half" course for a "half" course -or- "full" course for a "full" course. 8 and 12 week courses cannot be switched for a 6 week course or visa-versa.

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: development@trentu.ca

Financial Aid Office

Telephone: (705) 748-1524 E-mail: financialaid@trentu.ca
Fax: (705) 748-1629

Manager

J. 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/grants (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 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 2006–2007 academic year is January 25, 2007.

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 Disability Services Office early to discuss their needs and obtain an application. See p. 287 for details regarding students with disabilities.

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 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

The Ontario Trust for Student Support (OTSS)

In 2005 the Province of Ontario established the OTSS matching gift program to replace the OSOTF program. The OSOTF guidelines noted above apply also to bursaries and awards established through the generosity of donors and matching OTSS funds.

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

Established in 1986 to honour Eileen on her retirement from Trent University. Awarded to a student who makes a contribution to university life. OTSS guidelines apply.

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 ANTH 100 from the previous year.

Peter G. Bailey Bursary in Teacher Education

Established in memory of Peter by his family. Awarded to a third or fourth year student in Teacher Education. OSOTF guidelines apply.

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.

Gladys Barlow Bursary

Awarded to a student or students with disabilities, with preference given to students with diagnosed learning disabilities, on the advice of Disabilities Services. 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.

Beta Sigma Phi Bursary

The gift of the Peterborough Beta Sigma Phi Chapters. Restricted to a member, the spouse of a member, or to the son, daughter, grandchild, stepchild, niece or nephew of an active member of BSP in Ontario. OSOTF guidelines apply.

Birks Family Foundation Bursary

Awarded to a full-time 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.

Constantin Boundas and Ke-Ryang Choi-Boundas Philosophy Bursary

Established by colleagues, students and friends, in honour of Professor Emeritus Constantin Boundas and Mrs. Ke-Ryang Choi-Boundas. Awarded to a single-major honours student in Philosophy in second year or above. OSOTF guidelines apply.

B'nai Brith (Reginald R. Faryon) Bursary

Established by the Peterborough Branch of B'nai Brith 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.

Dainard Family Bursary

Established by Garnet and Clara Dainard, Peterborough, to be 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.

Faculty Association Bursary

Established by the Trent University Faculty Association. Awarded to students in second year or higher who achieved a minimum B average in the preceding academic year. OSOTF guidelines apply.

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 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: \$1,000.

German Studies Bursary

Awarded to students majoring in German Studies in second year or higher.

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.

Hamlin Family Bursaries

Established by the Hamlin Family (includes a Trent alumnus from 1988) in recognition of the value of a liberal arts education. Awarded to full or part-time (minimum of 3 credits) students entering third or fourth year. 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.

The Frederick and Lois Helleiner Teacher Education Bursary

Awarded to a part-time student in the School of Education and Professional Learning undertaking studies leading to certification for the first time as a teacher. 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 student with a disability, 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.

Keppeler Bursary of German Studies

Established by Hans and Christine Keppeler. 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 Barnet David Loftus in memory of his parents. OSOTF guidelines apply.

Jim MacAdam Bursary

Established in honour of Jim MacAdam, former Master of Champlain College. Awarded to an undergraduate student majoring in Philosophy. 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 Traill College student.

Malcolm Montgomery Bursary

A bequest from the estate of the late Malcolm Montgomery. Awarded to students in the fourth year of the Indigenous 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 Indigenous 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.

Doris Nofall Bursary

Established by Doris Nofall. To be awarded to a third year Honours English student in the Queen's – Trent Concurrent Education Program. OSOTF guidelines apply.

Nursing Bursary (B.Sc.N.)

Awarded to full-time students in the Trent/Fleming B.Sc.N. program.

OPSEU Bursary

Established by the concerned members of OPSEU local 365 at Trent University. Awarded to a worthy student. OSOTF guidelines apply.

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.

Peter Robinson College Students' Bursary

Established in 2005 by the students of Peter Robinson College. Awarded to a Peter Robinson undergraduate student who has made a significant contribution to the University community, has a minimum C+ average and demonstrates financial need. The bursary will be awarded to a Peter Gzowski College student when there are no longer Peter Robinson College students in the University who qualify.

Peterborough Professional Fire Fighters' IAFF Local 519 Bursary

Established through continued support from the Peterborough Professional Fire Fighters IAFF Local 519. Preference will be given to dependents of full-time fire fighters in the City of Peterborough. OSOTF guidelines apply.

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.

Gordon Roper Bursary

Established by the Department of English Literature to honour Professor Emeritus Gordon Roper, a teacher, scholar and pioneer in the fields of Canadian and American literature. Awarded to students majoring or joint-majoring in English in second or third year. OSOTF guidelines apply.

Rotary Club of Peterborough Bursary

Awarded to full-time students who are permanent residents of Peterborough City and County, who have disabilities 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 parents who have completed at least five courses towards an undergraduate degree. OSOTF guidelines apply.

Sally Stavro Bursary

Established in honour of Sally Stavro, a Toronto philanthropist, this bursary will be awarded to an upper level mature student majoring in Women's Studies. OSOTF guidelines apply.

Setsu Suzuki Bursary

Established by David Suzuki in memory of his mother, Setsu 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 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.

Lisa Thivierge and Donny Caldwell Bursary

Established by John and Rosemary Wordley in memory of Lisa Thivierge and Donald Caldwell. To be awarded to a first-year student who has attended Dr. John M. Dennison Secondary School. 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.

Morden Yolles Bursaries in Environmental & Resource Science/Studies

Established by Morden Yolles, a structural engineer who worked closely with Trent architect Ron Thom on many of the Trent University buildings, including the design of the Reginald Faryon Bridge. Awarded to undergraduate students enrolled in the Environmental Resource Science/Studies program. Preference will be given to promising students in their final year of study. 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 Politics. Awarded to an international student coming to Trent University to take courses in Politics. 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 \$1,000. 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 (at least 80% average) and proven financial need. Many of 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. A second phase was introduced in 2003. 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). 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 John Cranston and alumna 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.

Gordon H. T. Farquharson Award

Established by friends, colleagues and family members in memory of Gordon H.T. Farquharson, Q.C., L.S.M., D.F.C., who practiced law with integrity in Peterborough for 55 years. Mr. Farquharson was awarded the Distinguished Flying Cross, having served as a Spitfire pilot in WWII, and had a keen interest in war history. To be awarded to an undergraduate student studying History and Canadian Studies as a joint-major. OSOTF guidelines apply.

History Award

Established by an '83 Alumni, faculty members and other concerned alumni of the History Department. This Award will be granted to a worthy History student. 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.

Department of Mathematics Award

Established by faculty, staff and friends of the Department of Mathematics. Awarded to a first year student enrolled in MATH 110. 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.

Moore Family Award

Established in 2004 by David & Joan Moore. David is a passionate advocate for Trent having served on the Board of Governors from 1981-1996 and having chaired the For Tomorrow Campaign. A lifetime appointment as Honorary Governor was granted in 1996. Awarded to undergraduate students who demonstrate achievement and financial need. OSOTF guidelines apply.

Nichols/Civic Nurses Alumnae Award

Awarded to a third year nursing student showing proficiency in a clinical setting.

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.

Patricia H. Southern Mathematics Award

Established in 2004 by Patricia H. Southern, FCA and a member of Trent's Board of Governors. Awarded to one or two students in third or fourth year who demonstrate high academic achievement and financial need. Preference will be given to students majoring in Mathematics. OSOTF guidelines apply.

Gerry and Mary Stephenson Award

Dedicated to the memory of Gerry Stephenson, an avid canoe historian. Awarded to a third year student in History or Canadian Studies. OSOTF guidelines apply.

Trent University Foundation Award

Established by the current and past volunteer Directors of Trent University Foundation and the support staff of the Foundation. Awarded to a returning student in the fourth year of an Honours program. Preference will be given to students in the Humanities and Social Sciences. OSOTF guidelines apply.

WB Family Foundation Award in Environmental & Resource Science/Studies

Established by the WB Family Foundation. Awarded to an undergraduate student enrolled in the Environmental & Resource Science/Studies program who demonstrates both academic excellence and financial need. 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.

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.

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.

Students with documented disabilities may be eligible to renew scholarships based on a reduced course load. Please contact Joyce Sutton, Assistant Registrar, Financial Aid & Services.

Champlain Scholarships

Awarded to entering students of exceptionally high academic achievement and promise. These scholarships have an overall value of \$20,000 consisting of \$5,000 in the first year and \$5,000 in each of the succeeding three years providing that an academic average of 80% is maintained in five credits 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 credits or equivalent in each academic year. Awarded for the first time for the 2005–2006 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 \$18,000 consisting of \$4,500 in each of four years of study providing that scholarship standing of 80% is maintained in five credits or equivalent in each academic year.

Trent University Special Admission Scholarships

Awarded to entering students of outstanding academic and extra-curricular achievement. These scholarships have an overall value of \$15,000 consisting of \$3750 in each of four years of study, providing that scholarship standing of 80% is maintained in five credits 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 credits or equivalent each academic year for renewal. Scholarship values range from: 80% to 84.9%, \$1,000 each year; 85% to 89.9%, \$1500 each year; and 90% or higher, \$2500 each year. Renewable for up to four years of study. 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 credits or equivalent each year. Scholarship values range from: 80% to 84.9%, \$500; 85% to 89.9%, \$1,000; and 90% or higher, \$2,000 each year. No application is necessary.

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.

Bews Scholarship

Awarded to students of Catharine Parr Traill College in their second, third or fourth year. Preference shall be given to students majoring in Classical Studies, Modern Languages or English Literature, in that respective order. These scholarships were established by W.A. (Bill) and Vena Bews, parents of Professor Janet P. Bews of Trent University.

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 credits 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 or grandparents 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

A gift of alumnus John Cranston and alumna 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.

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 Department of Physics & Astronomy. 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.

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 a third 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.

Mary L. Northway Scholarship

Established in honour of Mary Northway. Awarded to one or two students with the highest academic average entering into the fourth year of the Honours program in Canadian Studies.

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.

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 at 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 2006. Deadline date is mid-June 2006. The scholarship application is part of the OSAP application package, either online 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 \$4,000 scholarship, Provincial winners receive \$4,000 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, 2006. Applications may be obtained from Ontario high school guidance offices in late Fall, and online 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 Proficiency 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 Development Studies Foreign Student Scholarship

Established by an anonymous donor in recognition of three generations of Helleiniers who have been outstanding teachers and scholars in the field of international development studies.

Awarded to Trent students from a lower income country enrolled in the International Development Studies program who have demonstrated academic excellence during their studies in the first, second and third year of the program.

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 Honours 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 ANTH 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 NAST 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.

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.

Leonard Conolly Prize

Leonard Conolly Award is named in honour of former Director of the Program in recognition of his active involvement in World University Service of Canada (WUSC). This award is given to a student to recognize outstanding commitment and contribution to the support of refugee students.

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 GEOG 401 or 402 in the Winter session on the basis of both academic achievement and proposed thesis research. A total prize of \$1,000 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 Indigenous 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 Politics.

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.

Human Resources Professionals of Peterborough Prize

Awarded to the graduating student with the highest average in Human Resources courses from the Business Administration Degree program (single- or joint-major) with a specialization in Human Resources Management

Arnold Hyson Prize in Maritime Studies

Awarded to the student with the most outstanding research paper in CAST – HIST 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 CHEM – BIOL 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 Prize – Ontario Archaeology

Donated by Patricia Johnston in memory of her father, Professor Richard B. Johnston of the Department of Anthropology. Awarded to a deserving student in Ontario archaeology.

Richard B. Johnston Prize – North American Archaeology

Donated by the family in memory of Professor Richard B. Johnston of the Department of Anthropology. Awarded to a deserving student in North American archaeology.

Elwood Jones Prize in History

Awarded to an Otonabee College student enrolled in single or joint-major in History, who at the end of three years has the highest cumulative average in their History credits. It is awarded in recognition of Professor Elwood Jones' many years of service to the History Department at Trent University and to Otonabee College (Master 1978-83 and Senior Tutor 1998-2003)

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 Indigenous 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 (ADMN 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 Indigenous 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 ADMN 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.

James Middleton Essay Prizes in Humanities

Established by the donor in 2004 to encourage students in the study of the Humanities as the foundation for liberal arts and professional studies. Two prizes are awarded annually for outstanding essays by students in second year who are pursuing Honours degrees in Ancient History & Classics, History, Philosophy or English Literature. The prizes rotate between Ancient History & Classics and Philosophy in one year, and History and English Literature in the next.

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 Indigenous 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 College 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 AHCL 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 NAST 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 Indigenous 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 Indigenous 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 NAST 255.

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 CHEM 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 Indigenous 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' Association Prize

A gift of the Peterborough Professional Engineers' 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 & Astronomy Prize

A gift of the Department of Physics & Astronomy. 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 Politics

A book prize established in honour of the late Andrew Priestman, Honours B.A. 1991. Awarded to a graduating student in Politics who has maintained a solid academic achievement and made an above-average contribution to student life and the activities of the Politics 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 PSYC 401 or 402 (Honours thesis).

Carlyle Smith Prize in Psychology

Awarded to a third or fourth year student who has shown outstanding performance on a project or paper concerning sleep, sleep disorders or dreams.

Denis Smith Essay Prize

The gift of the Politics department. Awarded each year to a fourth-year student submitting an outstanding essay in Politics.

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 Politics 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 IDST 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.

Jon and Shelagh Grant Prize for Inuit Students

Established to encourage the continuation of the education of a second or third year Inuit student. Awarded through the Senior Tutor at Julian Blackburn College.

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. Any student who submits their application by May 19, 2006 will be guaranteed residence accommodation. All new students are asked to complete and return the Residence Application 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). Please see the Residence website for more details at www.trentu.ca/housing.

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 376.

Principal

M. A. Peterman, A.B. (Princeton), M.A., Ph.D. (Toronto)

Senior Tutor

S. L. Keefer, B.A., M.A., Ph.D. (Toronto)

College Don

Lara Hof, B.A., (Windsor)

College Assistant

Wendy Scammell (interim)

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 and the Principal's Lodge are devoted solely to academic space. Kerr House 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. The Principal's Lodge houses offices for the Master's program in Theory, Culture and Politics (TCP).

In addition to being the base for the academic departments of English, Cultural Studies and Canadian Studies, Trill has faculty members from most disciplines in the arts and social sciences. It is thus an active centre for teaching and learning, not only for resident students, but also for Trill'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 Trill College as it is home to students from over 30 different countries.

All Trill students are invited to participate in a variety of activities sponsored by the College, from play performances 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 Trill 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, Charles Foran and Douglas Glover, international development economist Dr. Amiya Kumar Bagchi, and Trill'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 Trill 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. Trill 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 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. 376.

Master

S. W. Brown, B.A., M.A. (Windsor), B.A., Ph.D. (Queen's), F.S.A. (Scot.)

Senior Tutor

D. French, B.A. (Trent), M.A. (Wilfrid Laurier), M.Div. (Wycliffe College)

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, an 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 International Development Studies, Politics, 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.

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. 376.

Principal

To be named

Senior Tutor

P. J. Northrop

College Don

A. McIntosh

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 History, Modern Languages (French, Spanish, German), Philosophy, Women's Studies and the offices of the Vice President Academic and 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 with movie screening capabilities), and downstairs they will find the student-run coffee shop (The Maggie), Crawlpadies, 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, lectures 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; *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

E-mail: otonabee@trentu.ca

Fax: (705) 748-1335

Web: www.trentu.ca/colleges/otonabee.html

See map of Symons Campus, p. 376.

Principal

To be named

Senior Tutor

J. Mackie, B.Sc. (Hons., Queen's), 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 boiling water" in Nishaabeg). To the east of the College are located the new buildings for the DNA Cluster and the Forensic Program; beyond them a rolling rural landscape with a magnificent stand of blue spruce. To the west are 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. The residence is co-educational, although there are single-sex areas within the houses. 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 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 Monture Lounge, available for casual student use. A large and attractive Junior Common Room and student pub is located close to the Food Court/Dining Hall, with large-screen television, bar games, and many comfortable chairs for relaxing.

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 125-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 (Cabinet) 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: gzowski@trentu.ca
Web: www.trentu.ca/colleges/gzowski.html

See map of Symons Campus, p. 376.

Principal

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

Senior Tutor

E. Bentzen, B.Sc. (McGill), M.Sc., Ph.D. (Waterloo)

College Don

To be named

College Assistant

C. Diaz, B.A. (Trent)

Peter Gzowski College is named after the University's eighth Chancellor, Peter Gzowski (1934-2002), author, broadcaster, columnist and champion of literacy. The College is located in the Enweying Building ("Enweying" is an Ojibway word meaning "the way we speak together") on the Symons Campus. Enweying has 250 single residential rooms for students, as well as a dining room and academic facilities. Enweying also hosts the First Peoples House of Learning which integrates ceremonial, cultural and academic spaces for the Indigenous Studies programs. Faculty and staff in the departments of Mathematics, Economics and Business Administration as well as the Offices of Research and of Graduate Studies have their offices in this building.

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 to Trent students in Oshawa. 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

M. R. Boyne, B.A. (Trent), M.A. (Toronto)

Writing Instructors

M. A. Armstrong, B.A. (Trent), M.A. (Toronto); **M. El Komos**, M.A. (American University, Cairo); **E. Stewart Eves**, B.A. (Trent), B.Ed. (Queen's), M.A. (Trent)

Instructors, TRENT-ESL

J. Brocklehurst, B.Ed. (Concordia), M.A. (St. Michael's College); **P. Krüger**, B.A. (Trent), M.Ed. (Toronto); **T. Pattison**, B.A. (Trent), M.A. (Toronto)

The Academic Skills Centre teaches students through individual and group instruction, publications and the TRENT-ESL program. The Centre is located in Champlain College and provides services to students in all colleges and at Trent's campus at UOIT.

Individual and Group Instruction

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 appointments, instructors 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; and for students in mathematics or mathematics-based courses, for whom an instructor is available for individual consultation and workshops.

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 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.

Academic Skills Centre instruction is also supported by the Peer Mentoring Program, a student-run service that provides individual and group mentoring to students in all disciplines. Program features include subject/major mentoring, group study sessions, advice on exam preparation and time management, and a tutor-referral service.

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 strongly 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. Its recently published third edition covers the entire essay-writing process and includes checklists, exercises, sample essays and an answer key.

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 UOIT in Oshawa, through the Academic Skills Centre, or online.

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

M. Aarlev

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. 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 "main event" textbook buy backs held throughout the year; however, the bookstore buys back every day.

Textbook returns:

New textbooks can be returned for a full refund under the following conditions:

- You provide a receipt.
- You have not written in the book.
- You return the book within seven days of the first day of classes or within two days of your purchase after that date.
- If you have dropped a class, you provide proof that you have done so, up to one month after classes begin or at the end of the drop-add period, whichever is first. (Your calendar lists the pertinent dates.)

NOTE:

- Shrink-wrapped sets are non-returnable unless they are defective.
- Please be careful when opening shrink-wrapped sets. They are not returnable if you are responsible for defects to any electronic media they contain.
- Coursepacks (custom course packages) and reprotexts (portions of reproduced textbooks) are non-returnable.

Used book buying guide prices are always available for books which you are unable to return because of any of the above conditions.

Disability Services

Bata Library, Suite 109
Telephone: (705) 748-1281
Telephone TDD: (705) 748-1482
Fax: (705) 748-1509

E-mail: disabilityservices@trentu.ca
Web: www.trentu.ca/sno

Manager, Disability Services E. Lund-Lucas

Within its resources, Trent University endeavours to ensure the accessibility of its campus and programs to all students, including those with disabilities. The University has a Disability Services Office, located on the ground floor of the Bata Library building, and a disability services team, who provide 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 disabilities, and liaison with faculty members and with support agencies in the community. In addition, the Disability Services Office has available some adaptive technological aids such as computers equipped with voice synthesizer, optical scanning equipment, reading lamps, portable FM systems, four-track tape recorders and hand-held tape recorders.

Students with disabilities 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 disabilities 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 disabilities should investigate the availability of assistance through such agencies in their home province or country.

The Disability Services 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.

Information Technology

Telephone: (705) 748-1011 ext. 7014
Fax: (705) 748-1122

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

Director, Information Technology

P. Wood, B.Sc. (Trent), M.Sc. (McMaster)

Administrative and Project Manager

A. Parker

Manager, Media Services

A. Parker (Acting)

Manager, Network and Security

R. Neals

A wide variety of computing and media resources is available to members of the Trent academic community in support of their research, learning, teaching and scholarship. These include wireless Internet access, public labs providing Internet access, e-mail, various computer languages, productivity 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. Media services are provided free of charge to all academic programs. All Media bookings and requests for services are to be e-mailed (AVServices@trentu.ca) or faxed ((705) 748-1124) to Media Services.

Computing resources are accessible only through personalized computer accounts, available to all faculty, staff and students through Information Technology. Accounts for first year students are available for claiming as part of the University's summer orientation process.

The use of Trent's computer facilities is available to all Trent students and Trent employees free of charge.

Library

Telephone: (705) 748-1011 ext. 1539
Fax: (705) 748-1126

Web: www.trentu.ca/library

University Librarian

To be named

Librarians

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) (*on leave 2006-2007*); **E. Olsen-Lynch**, B.Sc. (Brock), M.L.S. (Western); **M. Scigliano**, B.A. (Toronto), M.L.S. (Dalhousie), M.A. (Concordia); **J. Watson**, B.A. (Carleton), B.Ed. (Lakehead), M.A. (Laurentian), M.L.I.S. (Western Ontario); **B. Znamirovski**, B.A. (Queen's), M.L.S. (Dalhousie)

Librarian Emerita

A. McCalla, B.A., B.L.S., M.L.S.

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 online 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 online 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 542,000 volumes, 330,000 microforms, 1,500 current print serials subscriptions, 10,000 electronic serials, 87,000 maps and 24,500 air photos, and 236,700 government publications. The Library has recently developed a collection of education materials to support the new Bachelor of Education program including a curriculum collection of over 2,800 items and a small collection of kits. Most print material is available in open stacks. An innovative library instruction program is also offered. The Library 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.

Trent University Archives holds non-current records of the University and also functions as a regional archive preserving private historical records of Peterborough County and the surrounding area. Holdings comprise over 1,100 metres of textual records – family, business, association and institutional papers – as well as 38,000 photographs, maps and other graphic items. These primary research materials complement both undergraduate and graduate teaching at the University. In addition, a number of special collections of published materials have been acquired which focus on rare Canadiana. The Archives Web site (trentu.ca/library/archives) provides an overview of the department and policies as well as in-depth guides to the holdings.

The Maps, Data & Government Information 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. Collections include: Canadian parliamentary and legislative papers, statutes and regulations and other Canadian legal tools, Statistics Canada collections, royal commissions and task force reports, technical reports and studies as well as a range of cartographic resources including Canadian and international gazetteers and atlases, topographic maps, theme maps, Ontario Base Maps, and aerial photography of the Peterborough/Kawartha region. The Data Centre offers geospatial and numeric digital information as well as related technical support. Introductory and specialized workshops to MaDGIC collections are offered in addition to general reference services. (www.trentu.ca/library/madgic).

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 coordinates student based committees for each of these services. The committees help raise awareness, address concerns, and make recommendations for improvements that will benefit the students and the University. They also approve budgets and make policy recommendations.

Student Affairs is also home to *Impact*, an innovative and exciting leadership program that prepares students to assume a wide variety of leadership roles within the Trent community and beyond. Students who complete this co-curricular experience will have the knowledge and skills to assist them in becoming productive, compassionate and effective leaders.

Alumni Association

Trill 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 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; 25 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, support for student groups and programs, hospitality to new students, special lectures and sponsored events.

Trent's alumni number over 29,000 representing 97 different countries. The success of our alumni as liberal arts and science graduates is impressive and diverse including a nationally recognized executive search consultant, an award-winning physicist, a provincial 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, an Ontario Court Justice 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

Fax: (705) 748-1447

Web: www.trentu.ca/athletics

E-mail: athletics@trentu.ca

Cardio Bookings/Court Bookings/Swim Times: (705) 748-1483

Director

Bill Byrick

Trent offers a diversified athletic and recreation program, ranging from organized inter-university competition to completely informal recreational activities. Facilities include a rowing venue, a full-size, artificial turf playing field with lighting, a gymnasium, a 25-metre pool, 4 squash courts, a weight room and fitness centre, saunas and locker facilities. A new natural grass sport-field is under construction and is expected to be seeded in the spring of 2006.

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. Varsity sports include Cross Country Running, Curling, Figure Skating, Fencing, Nordic Skiing, Rowing, Rugby, Soccer, Swimming, and Volleyball. Trent's award winning Intramural program includes water polo, basketball, fencing, hockey, soccer, softball, squash, flag football, volleyball, swimming, skiing, ultimate frisbee and triathlon. A complete schedule of aquatic leadership and fitness programs is available. Trent has an active club program as well, with teams involved in interuniversity competition at the club level in mountain biking, field hockey, lacrosse, triathlon, martial arts, Nordic skiing, rowing, badminton and dancing.

The staffing requirements of Trent's athletic programs and facilities generate a significant number of student employment opportunities. There are employment opportunities in aquatics, life-guarding, building maintenance, athletic staffing, campus recreation and fitness instruction.

Bus Service

Trent's Symons and Traill campuses are connected to each other and to the city by dedicated 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 May 1st each year. Please see section on Ancillary Fees for information on the compulsory transportation fee, or view Trent's website: www.trentu.ca/studentaffairs/transportation.ca. Part-time students may also purchase a student bus pass. Students enrolled in Summer session at Trent may purchase a Summer bus pass from the Office of Student Affairs.

Career Centre

Champlain College, Rm 204
Telephone: (705) 748-1011, ext. 1385

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

Hours: 9:30 a.m. to 4:30 p.m. Monday to Friday. Reduced summer hours.

For an appointment in Oshawa, call (905) 721-3003.

The Career Centre is open year-round for part-time and full-time students as well as recent graduates who seek career- and work-related information and guidance. At the Career Centre, students will find information on different career options and effective work search strategies as well as resources for graduate school and further education opportunities.

Workshops and information sessions are held throughout the school year and the Career Centre hosts career fairs and other networking events that allow students to connect with employers. Individual appointments are available for resume and cover letter critiques and career counselling. Connect with Trent alumni through our online Alumni-Student Mentoring Program at www.trentu.ca/careers/mentoring

Trent University is a member of workopolisCampus.com, Canada's biggest job site for students and recent graduates. This online database provides full- and part-time employment opportunities, both on and off campus, directly to Trent students.

Find out where your Trent degree can take you by visiting us on-campus in Champlain College or online at www.trentu.ca/careers.

Child Care Centre

1600 West Bank Drive
Telephone: 743-2811

Web: www.trentu.ca/org/tccc

Executive Director

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 year round.

Counselling Centre

Blackburn Hall, Suite 113
Telephone: (705) 748-1386
Fax: (705) 748-1137

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

Hours: 9 a.m. to 12:00 pm and 1 p.m. to 4 p.m. Monday to Friday. (Reduced Summer hours. Please call ahead.)

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. An outreach clinic is operated at Durham College for Trent students attending classes at the Oshawa Campus. 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 call (705) 748-1386 or drop by Blackburn Hall 113.

Disability Services

See Academic Support Services (p. 285).

Indigenous Student Services

Trent University's Indigenous Studies Department offers several services for Indigenous students at the university. Indigenous Student Services is located in The First Peoples House of Learning, Enweying building, on the main Symons campus. Student space is provided in Mshiikh: First Peoples Gathering Space, located on the lower floor of Enweying. Nendimowin: Elders and Students Centre, located in Enweying 322, provides computer and printer access.

Peer Tutor and Academic Coaching Program

The Academic Coaching Program can provide first year Indigenous students with a Coach from the Adler School of Professional Coaching to help them with both their academic work and the transitions that come with entering university.

The Peer Tutors 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. Work room, computers and telephone are available for students in Enweying, First Peoples House of Learning room 322. Contact the main office of the Department, at (705) 748-1011 ext. 7466, for more information.

Cultural Advisor

The Cultural Advisor is a staff position in the Indigenous Studies Department with the responsibility to provide a variety of services and activities to support enhanced awareness and understanding of contemporary and traditional Indigenous issues within the University community. A primary responsibility is to provide guidance and counseling on Indigenous cultural matters to all students (Indigenous and non-Indigenous), faculty and staff. Other duties include providing support, advice and assistance to student groups and committees. The Advisor is frequently called upon to discuss contemporary Indigenous (First Nations, Indian, Native Metis and Inuit) issues with Faculty and Graduate students. Guest lectures may be provided upon request. Various cultural events, traditional activities and workshops are presented throughout the academic year. The Advisor acts as the primary Department liaison for the Elders and Traditional Peoples' Gathering each February.

The Cultural Advisor is available to work with all students, not just those enrolled in Indigenous Studies courses. Please do not hesitate to refer students. The Advisor is available upon request to meet with faculty.

Our Cultural Advisor, Vern Douglas can be reached at (705) 748-1011 ext. 7072 or by e-mail at vdouglas@trentu.ca. His office is Enweying 329.

Indigenous Student Counselor

The department also retains a Counselor who is available to Indigenous students and to students in Indigenous 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. Referrals to long term counselling can be arranged through the Indigenous Counselor.

Our Indigenous Student Counselor, Joeann Argue, can be reached at (705) 748-1011 ext. 7612 or by e-mail at jargue@trentu.ca. Her office is Enweying 323.

Trent University Native Association (TUNA)

Begun in 1969, TUNA provides a voice for students within the Department of Indigenous Studies and for Indigenous students throughout the University. It is a body organized by, for

and about Trent's Indigenous student population. TUNA organizes various cultural, social and recreational events throughout the year and provides a forum to discuss and deal with issues affecting Indigenous peoples. TUNA can be contacted by e-mail at tuna@trentu.ca. The TUNA office is located in Enweyng 322.

Off-Campus Housing Service

Suite 110 – Blackburn Hall
Telephone: (705) 748-1011, ext. 5128

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

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 to view the listings, ask questions and/or pick up a map of the City of Peterborough. From anywhere you can look at our website or e-mail us for more information.

Student Health & Dental Benefit Plans

Trent Central Student Association Student Benefits Office
Champlain College, Room S109

Telephone: (705) 748-1107
Fax: (705) 748-1108

E-mail: benefits@trentcsa.ca
Website: www.trentcsa.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 calendar 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 with alternative health and/or dental coverage 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, or complete an on-line opt-out form, before the advertised deadline. Refund cheques for those students who have opted-out of the plan(s) will be available in early December each year at the Student Benefits Office. Students wishing to opt-out need only do so one time during their studies, provided they are consecutively studying full-time at Trent University in Peterborough.

Students are encouraged to contact the Student Benefits Office or visit the website to learn more about the plan(s), understand all plan options, and confirm opt out deadlines as soon as they arrive on campus as it is the student's responsibility to meet all deadlines associated with the Student Benefits Plans.

For reasons of personal information and privacy protection, the Trent Central Student Association Student Benefits Office can only discuss information pertaining to an individual's status on the plan(s) with the plan holder.

Student Health Services

Blackburn Hall
Telephone: (705) 748-1481
Fax: (705) 748-1055

E-mail: AWalters@trentu.ca
Web: www.trentu.ca/healthservices

Hours: 9:00 am – 12:00 noon 1:30-4:30 pm Monday – Friday during the academic year.

The goals of the Health Service are to increase the health and well-being by helping students to make positive health decisions and build skills to carry out these decisions. Students are encouraged to eat well, be active and stay smoke free.

Male and female physicians and a nurse are available for office clinics. All clinics require booked appointments. If the student is receiving allergy injections, a letter is required stating dosage, schedule for injections and special instructions from the allergist.

All students attending Trent University are required to have valid health insurance. Any student without medical insurance is held personally responsible for his or her health care costs.

The following is a list of immunizations which the Ontario Ministry of Health and the National Advisory Council on Immunizations recommends you have updated prior to admission:

- Measles, Mumps, Rubella
- Tetanus, Diphtheria
- Hepatitis B
- Meningitis
- Tuberculin Test (2 step)
- Hepatitis A (discuss with family doctor regarding risk factor)

Applicants to the Nursing Program must ensure that the medical form is completed prior to admission.

All services are completely confidential.

Trent Central Student Association

Suite S110, Champlain College

Telephone: (705) 748-1000

E-mail: info@trentcsa.ca

Fax: (705) 748-1002

Website: www.trentcsa.ca

The Trent Central Student Association (TCSA) is the students' union that represents full-time undergraduate students and consecutive teacher education students at Trent University studying in Peterborough.

General elections are held each year in early spring. By-elections for vacant and first year positions are held 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 College 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.

Students are encouraged to contact the Association office to learn more about the services, support and opportunities available through the TCSA and to find out how to get involved.

Academic Calendar 2006–2007



Graduate Studies

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GRADUATE STUDIES AT TRENT

Office of Graduate Studies

Mailing Address

Trent University, 1600 West Bank Drive, Peterborough, Ontario K9J 7B8

Office Location

Blackburn Hall, 1600 West Bank Drive

Telephone: (705) 748-1011 ext. 7245

Fax: (705) 748-1587

E-mail: graduate@trentu.ca

Web: www.trentu.ca/gradstudies

Dean of Graduate Studies

R. D. Evans, B.,Sc. (Toronto), Ph.D. (McGill)

Graduate Studies Officer

L. Durst (705) 748-1011 ext. 7346

E-mail: ldurst@trentu.ca

Scholarships & Bursaries Officer

To be named (705) 748-1011 ext. 7075

Graduate programs at Trent University have been built around areas of faculty members' research. Faculty members who supervise graduate students are often members 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	Indigenous 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 Graduate Studies is responsible for the administration of graduate degree programs offered at Trent University, the admissions and registration of graduate students, as well as the management of scholarship and awards for graduate students. The Committee on Graduate Studies consists of members of faculty, Graduate Program Directors and graduate students from various disciplines. The Graduate Studies committee is a standing committee of Senate and reviews and makes recommendations to Senate on all matters of education policy and planning for graduate studies.

IMPORTANT DEADLINES

Readers are advised that changes may occur to the dates listed below. Students should consult the website for any changes, and any 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 2006 Convocation, the following deadlines apply:

Mar 31 Friday	Last possible date to successfully defend thesis/dissertation for those wishing to convocate at Spring Convocation
Apr 17 Monday	Last possible date to submit final copies of successfully defended thesis/dissertation to the Office of Graduate Studies for those wishing to convocate at Spring Convocation

SPRING SESSION 2006 (MAY TO AUGUST)

Note: Students with a defence date set before May 6, 2006 are 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 Graduate Studies by May 26, 2006. Students who fail to meet this deadline will be required to pay fees for the term (any subsequent refund will be based on the date of degree completion: see refund schedule)

Apr 21 Friday	Last date to apply for approval from the Research Ethics Committee for Summer research
May 1 Monday	Registration and fee payment due for May-start students Fee instalment due for September and January-start students
May 5 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 26 Friday	Last date for May-start students to register and pay fees without late penalty Last date for September and January-start students to pay fee instalment without late penalty Spring Convocation Last possible date to submit successfully defended final copies of thesis/dissertation to the Office of 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 2	Convocation
June 23 Friday	Final date for May-start students to register and pay fees with late penalty. Final date for September and January-start students to pay fees instalment with late penalty Failure of May-start students to register and pay fees, or September and January-start students to pay fees instalment, by this deadline will result in immediate withdrawal from the program without notice.
June 30 Friday	Ministry of Training, Colleges and Universities (MTCU, formerly MET) count date

FALL SESSION 2006 (SEPTEMBER TO DECEMBER)

Note: Students with defence dates set before October 6, 2006 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 Graduate Studies by October 27, 2006. Students who fail to meet this deadline will be required to pay fees for the term (any subsequent refund will be based on the date of degree completion: see refund schedule)

Sep 5 Tuesday	Registration begins for September-start students Fee instalment due for January and May-start students Graduate Orientation Days (compulsory) begins
Sep 25 Monday	Last date for new and continuing September-start students to register and pay fees without late penalty Last date for January and May-start students to pay fee instalment without late penalty
Oct 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).
Oct 27 Friday	Final date for September-start students to register and pay fees with late penalty. Final date for January and May-start students to pay fee instalment with late penalty Failure of September-start students to register and pay fees, or January and May-start student to pay fee instalment, by this deadline will be withdrawal from the program without notice. Last possible date to submit successfully defended final copies of thesis/dissertation to the Office of 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)

WINTER SESSION 2007 (JANUARY TO APRIL)

Note: Students with defence dates set before January 5, 2007 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 Graduate Studies by January 26, 2007. Students who fail to meet this deadline will be required to pay fees for the term (any subsequent refund will be based on the date of degree completion: see refund schedule)

Jan 3 Wed	Registration and fee payment due for January-start students Fee instalment due for September and May-start students
Jan 5 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 26 Friday	Last possible date to submit successfully defended final copies of thesis/dissertation to the Office of 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) Final date for January-start students to register and pay fees without late penalty Final date for September and May-start students to pay fee instalment without late penalty
Feb 23 Friday	Final date for January-start students to register and pay fees with late penalty. Final date for September and May-start students to pay fee instalment with late penalty

Failure of January-start students to register and pay fees, or September and May-start students to pay fee instalment, 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 2007 Convocation, the following deadlines apply:

Mar 30 Friday	Last possible date to successfully defend thesis/dissertation to be eligible for those wishing to convocate at Spring Convocation
Apr 20 Friday	Last possible date to submit final copies of successfully defended thesis/dissertation to the Office of Graduate Studies for those wishing to convocate at Spring Convocation

SPRING SESSION 2007 (MAY TO AUGUST)

Note: Students with defence dates set before May 4, 2007 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 Graduate Studies by May 26, 2007. Students who fail to meet this deadline will be required to pay fees for the term (any subsequent refund will be based on the date of degree completion: see refund schedule)

Apr 20 Friday	Last date to apply for approval from the Research Ethics Committee for Summer research
Apr 30 Monday	Registration and fee payment due for May-start students Fee instalment due for September and January-start students
May 4 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 25 Friday	Final date for May-start students to register and pay fees without late penalty Final date for September and January-start students to pay fee instalment without late penalty Last possible date to submit successfully defended final copies of thesis/dissertation to the Office of 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)
May 31/June 1	Spring Convocation*
June 22 Friday	Final date for May-start students to register and pay fees with late penalty. Final date for September and January-start students to pay fee instalment with late penalty Failure for May-start students to register and pay fees, or September and January-starts students to pay fee instalment, by this deadline will result in immediate withdrawal from the program without notice.

There will be no exceptions to these deadlines.

*official convocation date for Graduate Students tba

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, Indigenous 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 Graduate Studies whereupon the completed applications will be considered by the Committee on Graduate Studies. The Office of 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 Graduate Studies.

Applications are due by February 2, 2007 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 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 \$60 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 Trent University 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 applicant'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 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 using one of the tests listed below.

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. 298). 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 full-time Master's 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.

2006–2007 GRADUATE STUDENT FEE SCHEDULE

(Based on 2005–2006 fees and subject to revision for 2006–2007)

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 one year's tuition for a full-time Master's student. The doctoral degree fee will be based on the value of two 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 \$11,863.00	n/a
Ancillary Fees		
Athletics	142.26	69.01
Campus Card	9.00	9.00
College Fee ²	15.00	7.50
Convocation Fee	13.77	2.75
Graduate Students' Association	27.00	11.00
Graduate Student/College Fund	52.60	26.30
Student Health Service	\$ 34.00	\$ 3.05
TCSA/GSA Drug Plan ³ (2005–2006 rate)	127.00	n/a
TCSA/GSA Dental Plan (2005–2006 rate)	112.00	n/a
Total Ancillary Fees	\$532.63	\$128.61

Optional Fees

Transportation Fees ⁴	\$236.90	n/a
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Other Fees

Application Fee	60.00	
Application for Leave of Absence	25.00	
Application for Re-Admit	60.00	
Late Registration Fee (see Important Deadlines, p. 298)	100.00	
Official Letters	5.00	
Additional copies	1.00	
Fax charge	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>)	528.00	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.

⁴ Transportation Fee (bus pass) is optional for full time graduate students. The bus Pass is not available to part-time graduate students.

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 Graduate Studies by the final submission date published in the Graduate Diary, will have their fees cancelled (*in accordance with Trent University's Graduate Students Refund Schedule*) for the applicable term. 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.

Fee Schedule

Status	Start Date	Instalment	Portion Owed	Amount Owed
Full-time	September	1st	1/3 tuition, 1/2 ancillary fees, health & dental & transportation	\$ 2,426.05
	January*			
	May**	2nd	1/3 tuition, 1/2 ancillary fees	\$ 1,950.15
		3rd	balance of tuition	\$ 1,803.33
			Total	\$ 6,179.53
Part-time		1st	1/3 tuition, 1/2 ancillary fees	\$ 965.97
		2nd	1/3 tuition, 1/2 ancillary fees	\$ 965.97
		3rd	balance of tuition	\$ 901.67
			Total	\$ 2,833.61
International Fees***				
Full-time		1st	1/3 tuition, 1/2 ancillary fees, health & dental & transportation	\$ 4,577.05
		2nd	1/3 tuition, 1/2 ancillary fees, health & dental	\$ 4,101.15
		3rd	balance of tuition	\$ 3,954.33
			Total	\$12,632.53

Notes:

* Health & dental charges are pro-rated and applied in full in September.

** Health & dental charges are not applied until September.

*** International students will also have to pay UHIP charges.

Tuition and ancillary fees are subject to change.

There is a \$60.00 charge applied when paying in instalments.

Graduate Student Association, College Fee, Graduate Student/College fund and Transportation Fees are non-refundable.

Refund Schedule

Term	100%	75%	25%	0%
Fall	Sept 5 – 29	**Oct 2- Oct 27	Oct 30 – Nov 24	Nov 27 – Dec 29
Winter	Jan 2 – 26	Jan 30 – Feb 23	Feb 26 – Mar 23	Mar 26 – Apr 27
Spring	April 30 – 25	May 28 – June 22	June 25 – July 20	July 23 – Aug 30

Notes:

This schedule is based on terms (Sept., Jan. and May). If fees have been paid in full, the fees for the terms after the date of withdrawal or completion will be refunded in full and the refund schedule will apply to the fees for the term in which the student withdraws or completes.

Refund amount will be reduced by any bursary, scholarship, tuition fee waiver, research fellowship, etc. that applies to the refund period.

** Students who complete their degree requirements before October 27 will not be assessed fees for the fall term. Please refer to Note under Fall Session 2006.

Percentage refund applies to refundable portion of fees only.

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 following 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. 304)

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 Graduate Studies.

The Office of 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 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: development@trentu.ca

Financial Aid Office

Telephone: (705) 748-1524

E-mail: financialaid@trentu.ca

Fax: (705) 748-1629

Manager

J. 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 2006–2007 academic year is January 30, 2007

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. 287 for details regarding students with disabilities.

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

Bursaries are awarded as part of the financial support package for incoming and continuing graduate students. Bursaries may be offered to incoming graduate students as part of their financial support package as outlined in the Offer of Admission in early Spring. Returning graduate students are also eligible to apply for bursary assistance in August. In order to be eligible for bursary support students must provide a budget for the following twelve months that identifies all sources of support. Many bursaries are limited to Ontario residents, defined by having lived in Ontario for one year, excluding post-secondary studies. For budget purposes, the period of bursary support is set from September to August. Applications will be provided as part of the application package, or are available from the Graduate Studies Office. During the school year, additional bursary funds are available for students whose financial situation changes. Students seeking additional bursary funds should contact the Financial Aid Office.

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 and awards 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.

Ontario Trust for Student Support (OTSS)

In 2005, the Province of Ontario established the OTSS matching gift program to replace the

OSOTF program. The OSOTF guidelines noted above apply also to bursaries and awards established through the generosity of donors and matching OTSS funds.

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 Indigenous 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

Established in 1986 to honour Eileen on her retirement from Trent University. Awarded to a student who makes a contribution to university life. OTSS guidelines apply.

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 Barnet 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.

Sara Graduate Bursary

Established to provide assistance to a graduate student. Preference will be given to a sole support parent. OTSS guidelines apply.

Setsu Suzuki Bursary

Established by David Suzuki in memory of his mother, Setsu 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 \$1,000. 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 aid through Trent University's award program is designed to acknowledge those students with outstanding academic qualifications and proven financial need. Many of these awards are made possible through the Ontario Student Opportunity Trust Fund. In 1996 – 1997 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.

William & Jeffrey Hamblin Memorial Graduate Award

Established in memory of William and Jeffrey Hamblin. Awarded to a graduate student of high academic standing who is in financial need and enrolled in any program.

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.

Mary Northway Graduate Award in Canadian Studies

Awarded starting in 2005–2006 to qualified Ph.D. students in Canadian 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.

Dr. Laura Weintraub Award

Dr. Laura Weintraub was passionately interested in Aboriginal education, specifically the impact of learning disabilities on Native Canadians and their opportunities to obtain a good education. This award was established by her friends and family to mark her life and work in this field. Awarded to a student enrolled in a graduate or post-degree professional program whose academic interest and research is in the area of learning disabilities and/or the learning needs of Aboriginal people. OSOTF guidelines apply.

Graduate Scholarships

WEBSITES FOR EXTERNAL FUNDING

www.scholarshipscanada.com and www.studentawards.com

SCHOLARSHIP LISTS VIA WORLD-WIDE WEB

The Graduate Studies Office 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 – EXTERNAL

Natural Sciences and Engineering Research Council (NSERC) Scholarships

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. Internal Application Deadline: Early October. For further information and online application see www.nserc.ca.

Social Sciences and Humanities Research Council (SSHRC) Scholarships

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. Internal Application Deadline: October. 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. All eligible candidates who are interested in studying at Trent are urged to apply for one of these awards. Internal Application Deadline: October. For further information and online application see www.osap.gov.on.ca

The value of the OGS award is \$ 5,000 per term, two-thirds of which is provided by the Ministry of Training, Colleges and Universities and one-third of which is provided by the university at which the award is tenable.

The following private donors have very generously provided matching funds to pay for the one-third top-up of Ontario Graduate Scholarships awarded to scholars at Trent University:

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.

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.

Mary Margaret (McCulloch) Edison Graduate Scholarship

A gift from the estate of "Marnie" Edison. This is awarded to a deserving student in a graduate degree program.

Harley Richards Cummings – Canadian Studies Graduate Scholarship

A gift of his wife, Shirley, honours Harley, a respected educator in the Ottawa public schools and author of *Early Days in Haliburton*.

Jean Evelyn Graves – Canadian Studies Graduate Scholarship

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.

Morton – Native Studies Graduate Scholarship

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.

John Henry Wadland – Canadian Studies Graduate Scholarship

Established to honour the work of Professor John Wadland and recognize his leadership and commitment to the field of Canadian Studies. The recipient is in the first year of the Canadian Studies Ph.D. program and may continue the scholarship in their second year subject to academic performance.

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 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.

Sandi Carr Graduate Scholarship in Anthropology

Established by the Office of Research & Graduate Studies in honour of Sandi Carr, Graduate Studies Officer upon the occasion of her retirement from Trent University. Awarded annually to a deserving graduate student enrolled in the Anthropology M.A. program.

Edwin William Curtin and Irene Elizabeth Curtin Graduate Scholarship

Awarded to a graduate student with preference given to a student in the Watershed Ecosystems program engaged in research in Environmental Science. This fund and a fund for the Bata Library are bequests in the Will of Irene Elizabeth Curtin.

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.

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.

Native Studies Ph.D. Scholarships

Awarded to students with high academic standing in the Indigenous 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 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 Indigenous Studies Ph.D. 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.

Off-Campus Housing

The Housing Services Office at Trent University maintains an up-to-date list of rental housing in the Peterborough area. This information can be accessed by visiting their website at www.trentu.ca/housing. There are also a limited number of apartments available on campus in traditional residences and at Bradburn Hall. For further information about anything related to housing and residence, please visit the website, or call (705) 748-1011 ext. 5127.

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.

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 Graduate Studies:

Telephone: (705) 748-1011 ext. 7245

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 regular 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 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 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.

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 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. Ph.D. students should complete their comprehensive and qualifying exams within two years of beginning their studies, or within the time frame outlined in the program requirements.

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 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 Graduate Studies, copied to the Graduate Program Director and the thesis/dissertation supervisor.

Once the Office of 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 Graduate Studies at the time of withdrawal.

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 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 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 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 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 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 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 within two months of 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 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. (p. 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, an ad hoc appeals panel of 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 Graduate Studies and the Graduate Program Director before registration for the course work. Application forms are available online 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 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 Every attempt shall be made to schedule the defence 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 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 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 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 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 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. 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 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 E-mail: anthro@trentu.ca

Fax: (705) 748-1613

Web: www.trentu.ca/anthropology

The M.A. program in Anthropology is focused on the field of archaeology, ethnohistory, and art. Areas of concentration within the program include: 1) the archaeology and ethnohistory of Canada, Mesoamerica, South America and the US Southwest; Old World prehistory; archaeology of the ancient Roman world; archaeological method and theory; and Canadian historical archaeology; 2) the intersections of art with issues of gender, identity, beliefs and social organization. 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

G. Iannone, B.A. (Simon Fraser), M.A. (Trent), Ph.D. (London)

Faculty and Research Areas

Anthropology

J. Conolly, B.A. (Toronto), M.A., Ph.D. (London), *quantitative and computational archaeology, origins and spread of agriculture, settlement and landscape archaeology, European prehistory.*

P. F. Healy, B.A. (California-Berkeley), M.A., Ph.D. (Harvard), *archaeology, New World archaeology, Mesoamerica, Lower Central America, the Caribbean.* **H. S. Helmuth** (Emeritus), D.Sc., Dr.Habil. (Kiel), *physical anthropology, osteology, Germany, North America, Maya.*

G. Iannone, B.A. (Simon Fraser), M.A. (Trent), Ph.D. (London), *archaeological method and theory, social complexity, early states (comparative), Mesoamerica (especially the Maya), New World archaeology, archaeology and popular culture, heritage tourism.* **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.* **R. Lohmann**, B.A., M.A., Ph.D. (Wisconsin-Madison), *sociocultural anthropology, psychological anthropology, religion, dreaming, cultural transmission and change, Melanesia.* **M. Munson**, B.A. (Miami, Ohio), M.A., Ph.D. (New Mexico), *Aboriginal art, gender, identity, group relations, rock art, ceramics, Southwest.*

J. R. Topic, M.A., Ph.D. (Harvard), *archaeology, ethnohistory, complex societies, spatial analysis, Peru, South America.* **J. M. Vastokas** (Emeritus), 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. (Wilfrid Laurier), M.A., Ph.D. (McMaster), *Classical Archaeology, Roman Empire, North Africa.*

Adjunct Faculty

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 to 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 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). 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., ANTH 300 or 310 or ANTH – CAST – NAST 253.

Candidates who have fulfilled the admission requirements will be required to take at least three graduate courses, including either ANTH 500 or ANTH 510 and normally ANTH 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 three 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 also 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 in the beginning of the Winter session of each academic year. Candidates must maintain at least a second class standing in their work and must pass an oral examination in defense 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 obtain permission from their supervisor and the graduate program director, and receive final permission from the Graduate Studies Committee.

FINANCIAL SUPPORT

Graduate Assistantships

All students admitted will be placed in competition for Research Fellowships and Graduate Teaching Assistantships. The Teaching Assistantships involve a maximum of four terms of teaching and related work within the department (normally spanning two consecutive undergraduate academic years). 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 and/or a SSHRC/CGS Scholarship as well as to additional external (non-university) funding agencies. Application materials for OGS and SSHRC/CGS are available online and from the Office of Graduate Studies at Trent University.

Further Information

For further information write to the Director of the Anthropology Graduate Program.

COURSES AVAILABLE TO GRADUATE STUDENTS: ANTHROPOLOGY (ANTH)

Not all courses are available every year.

ANTH 500 – Ethnographic method and theory

(Required for students not taking ANTH 510) An examination and evaluation of major theories and methods and their relationship to problems in social, cultural, and linguistic analysis and interpretation. Emphasis will be placed on the history of ethnological thought and its implications for the development of ethnology and anthropology as a whole.

ANTHO 510 – Method and theory in archaeology

(Required for students not taking ANTH 500) An examination and evaluation of major theories and methods and their relationship to problems in archaeological analysis and interpretation. Emphasis will be placed on the history of archaeological thought and its implications for the development of archaeology and anthropology as a whole.

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.

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.

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.

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.

ANTH 550 – Research design

(Normally Required) Course aims are to develop research skills. Readings, seminars, assignments and student presentations will focus on a number of topics, including: the nature of research, ethics, sampling, statistics and research design, writing skills, computer literacy, research and grant proposal formulation, publishing, collaborative research, peer review, and presentation of conference papers.

ANTH 555 – Selected themes in European prehistory

Selected themes in European Prehistory are addressed through readings, seminars and student presentations. Topics may vary according to students' interests, but will include: origins of modern humans; Paleolithic and Mesolithic societies; origins and spread of farming; the Neolithic; and the emergence of hierarchies and early states.

ANTH 560 – Paleoecology of the Americas

This course examines the biology and ecology of prehistoric populations in various environmental and cultural settings.

ANTH 565 – Advanced skeletal biology

The course will explore how and why past populations are reconstructed from skeletal samples, with emphasis on current theoretical and methodological issues in skeletal biology. Topics will include methods of age estimation, palaeodemography, growth and development, palaeopathology, dental anthropology, and chemical analyses of bones and teeth.

ANTH 570 – Cultural processes

Research topics will vary according to the interests of staff and students, but will focus on dynamic aspects of learned thought and behaviour patterns in social and cultural contexts.

ANTH 575 – Word and image in cross-cultural perspective

An exploration of relationships between visual and verbal systems of communication from the Upper Paleolithic to the postmodern West. The course aims to delineate and 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.

ANTH 580 – Anthropology of art, architecture and material culture

This course examines the development, character and interpretation of art and architecture in cross-cultural perspective. Subjects vary from year to year but usually emphasize prehistoric and historic Aboriginal North America and rock art worldwide.

ANTH 585 – Public archaeology

This course is designed to provide the student with a detailed understanding of the issues surrounding public archaeology, a topic which, when viewed in its broadest sense, encompasses two general areas of inquiry: 1) the commodification of the past; and, 2) archaeology and popular culture.

ANTH 590 – Special topics

Occasional offerings in response to student interest and faculty availability.

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

To be named

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. Svishchev**, 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. (Shannxi), 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*. **A. Ma**, B.A. (Toronto), Ph.D. (Harvard), *econometrics, international finance and macroeconomics*.

Geography

P. Lafleur, M.Sc. (Trent), Ph.D. (McMaster), *boundary-layer climatology*. **C. L. McKenna Neuman**, Ph.D. (Queen's), *wind erosion*. **R. Ponce-Hernandez**, B.Eng., M.Sc. (Chapingo), D.Phil. (Oxford), *geographic information systems (GIS), remote sensing and spatial modelling*

Mathematics

K. Abdella, Ph.D. (Western Ontario), *atmospheric modelling*. **B. Zhou**, Ph.D. (South Carolina), *combinatorics and graph theory*.

Physics & Astronomy

W. A. Atkinson, M.Sc. (Alberta), Ph.D. (McMaster), *condensed matter theory and computation*. **J. W. Jury**, M.Sc., Ph.D. (Toronto), *subatomic physics*. **R. C. Shiell**, B.A. (Oxford), Ph.D. (Newcastle upon Tyne), *atomic, molecular and optical physics, dynamics of weakly-bound systems*. **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

T. DeCicco, B.Sc. (Manitoba), M.Sc. (Trent), *personality, abnormal psychology and health*. **J. D. A. Parker**, B.A. (Simon Fraser), M.A., Ph.D. (York), *stress and coping, personality and psychopathology*. **K. Peters**, M.A., Ph.D. (British Columbia), *sleep and memory; aging and*

cognition. **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*.

Adjunct Faculty

G. Sitarenios, Ph.D. (York), *psychological testing instruments (Multi-Health Systems, Inc.)*

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 non-linear 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 581H – Computational aspects of modeling

Common computational techniques in modelling: simulation, numerical analysis, solutions of differential equations. Prerequisite: the ability to program in at least one computational language; differential equations.

AMOD 582H – Advanced topics in computational aspects of modelling

Prerequisite: AMOD 551H and 561H or AMOD 571H or AMOD 581H 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

Fax: (705) 748-1801

E-mail: frostcentre@trentu.ca

Web: www.trentu.ca/frostcentre

This interdisciplinary M.A. is offered by the Frost Centre for Canadian Studies & 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 & Native Studies, and a jointly-sponsored Ph.D. in Canadian Studies with Carleton University (p. 336). 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 & Native Studies.

A collaborative effort that draws on a diverse range of faculty, the M.A. program focusses on the following thematic areas: the study of Aboriginal Peoples in Canada; Canadian culture, including literature, theory, the visual arts and cultural heritage; political economy, labour, social policy, community development; environmental politics, policy and natural heritage; women and gender in Canada; identities and difference, including the study of region and place, race, ethnicity, sexual orientation, disabilities; Canada in the global context.

Through course work and the writing of a thesis or a major research paper, 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 through scholarly work, but also through the conferences, visiting speakers, student workshops and publications sponsored by the Frost Centre.

Graduate Program Director

To be named

Faculty and Research Areas

Anthropology

J. Harrison, B.A. (Saskatchewan), M.A. (Calgary), D.Phil. (Oxford), *tourism, museums and Aboriginal People, organizational culture*. **J. Vastokas** (Emeritus), M.A. (Toronto), Ph.D. (Columbia)

Business Administration

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*. **R. Dart**, B.A. (Trent), M.E.S., Ph.D. (York), *organizational theory, community economic development, field methods*. **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. Quid**, 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*. **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*. **J. S. Milloy**, B.A. (St Patrick's), M.A. (Carleton), Ph.D. (Oxford), *Aboriginal policy, Aboriginal education and health issues, plains Indian history*. **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, errands 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. 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

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. J. Bailey, B.A. (Queen's), M.A., Ph.D. (Toronto), *Victorian literature and culture; gender studies; travel writing; life writing*. **S. Chivers**, B.A. (Calgary), M.A., Ph.D. (McGill), *narrative, disability studies, gender and age*. **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 and 20th century Canadian literature and culture, Ontario literature, literature of the West, Irish Canadian writers, esp. Moodie, Traill, Davies, Findley, Urquhart*. **M. Steffler**, B.A. (Victoria), M.A., Ph.D. (McMaster), *Canadian literature; Children's literature; the figure of the female child in Canadian literature; environmental issues in literature; romanticism, postcolonial and feminist theory*.

Environmental & Resource Science/Studies

S. Bocking, B.Sc., M.A., Ph.D. (Toronto), *environmental history, history of science, science in Canadian society*. **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 (Emeritus), 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). **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. Bain, B.A. (Queen's), M.A. (Toronto), Ph.D. (Cambridge), *contemporary urban culture, the geographies of artists and the geographies of sexuality, cultural workers, creativity, and urban change.* **A. G. Brunger**, B.Sc. (Southampton), M.Sc. (Alberta), Ph.D. (Western Ontario), *settlement process, Upper Canada/Ontario, regional development, public works.* **F. Helleiner** (Emeritus), M.A., Ph.D. (Western Ontario). **J. S. Marsh** (Emeritus), B.A. (Reading), M.Sc. (Alberta), Ph.D. (Calgary). **S. E. Wurtele**, B.Sc. (Trent), Ph.D. (Queen's), *cultural heritage, ethnicity, gendered spaces.*

History

D. Anastakis, B.A. (Western), M.A., Ph.D. (York), *20th century Canadian economic and political history, particularly post-World War II trade, economic and business history; US political and economic history; government and politics.* **F. Dunaway**, B.A. (N. Carolina), Ph.D. (Rutgers), *modern United States cultural, environmental, and political history; American Studies; visual culture.* **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), *history of Native people in the West; history of the Plains region, both in Canada and the U.S.; Canadian Mounted Police.*

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

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.*

Indigenous Studies

M. J. Castellano (Mohawk), OC, O.Ont., B.A. (Queen's), M.S.W. (Toronto); LLD (Carleton, Queen's, St. Thomas). **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. 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).

Politics

J. Driscoll, M.A., Ph.D. (Queen's), *citizenship, governance and globalization.* **D. R. Morrison**, M.A. (Saskatchewan), D.Phil. (Sussex), *international political economy, development studies, Canada's North-South relations.* **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.*

M. C. Smith, B.A. (McGill), M.A., M.Phil., Ph.D. (Yale), *Canadian and comparative politics: in*

particular, social movements, law and politics, public policy and the lesbian, gay, bisexual and transgender movements in Canada. **E. Stavro**, M.A., Ph.D. (Toronto), *Traditional and contemporary political theory, socialist and post modern political theory, democratic theory and feminist thought*. **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)

Sociology

G. Balfour, B.Sc., M.A. (Ottawa), Ph.D. (Manitoba), *Aboriginal peoples and the criminal justice system; feminist criminology and critical socio-legal theory, research methods*. **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*. **J. A. Muldoon**, B.Sc. (Brock), M.A. (Guelph), Ph.D. (McMaster), *health economics, alternative health care, health policy*. **D. Parnis**, B.A. (Ryerson), M.A. (Toronto), Ph.D. (Carleton), *media, women's issues, state theory, cultural theory*. **M. White**, B.A. (British Columbia), M.A., Ph.D. (Carleton), *Social theory; history of the human sciences; manners, conduct and character; habits and the "will," citizenship and public moralism*.

Women's Studies

J. Harrison, B.A. (Saskatchewan), M.A. (Calgary), D.Phil. (Oxford), *tourism, museums and Aboriginal People, organizational culture*. **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*. **C. Rice**, B.A. (Harvard), M.Ed. (OISE), Ph.D. (York), *narratives of body, identity, and difference in the passage to womanhood; experiences of women with disabilities in health care encounters; and young women's accounts of body image as an equity issue within educational settings*. **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*. **E. Stavro**, M.A., Ph.D. (Toronto), *Traditional and contemporary political theory, socialist and post modern political theory, democratic theory and feminist thought*.

Adjunct Faculty

R. Bringham, B.A. (Indiana), M.F.A. (British Columbia), *private scholar*. **J. Moss**, B.A. (Western Ontario), M. Phil. (Waterloo), Ph.D. (New Brunswick), *Professor of English, Ottawa*. **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*.

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. Masters candidates must choose one of the following two options:

1. Thesis-based M.A.:

- Two full courses, including CSNS 500, Interdisciplinary colloquium, and two other half graduate credits, or one credit course from CSNS offerings.
- A thesis on an approved topic. 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, and two other supervisory committee members of the Frost Centre. Students are

required to pass an oral defence of the thesis conducted by the committee and an external examiner.

2. Course-and Research-Based M.A.

- Four credits, including CSNS 500, Interdisciplinary colloquium, are required. Three other credits, or six half credits, to be taken from graduate CSNS offerings. Students may apply to substitute a half or full graduate credit offered by another Trent graduate program in lieu of a CSNS course.
- A major research paper, to be examined by a supervisor and one other Frost faculty member, preferably from a different academic unit or program from the supervisor. Policies relating to the research essay are laid out in the M.A. graduate student handbook.

All students must attain at least a second class standing in their work. Additional requirements appropriate to the candidates 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 – Environmental politics, policy and natural heritage

CSNS 550H – Identities and difference in Canadian Society

CSNS 570H – Women in Canadian society

CSNS 599/599H – 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

To be named

Faculty and Research Areas

See the calendar entry on the M.A. Program in Canadian Studies & Native Studies (p. 331)

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. Applicants wishing to be considered for admission to the Ph.D. program must submit completed applications by February 1.

Program Requirements

Doctoral candidates must successfully complete 10 credits. Candidates with deficiencies in certain areas may be admitted to the Ph.D. program, but normally will be required to complete additional work. The specific requirements are as follows:

- credit for successful completion of the mandatory core seminar, CAST 600
- 1.0 credit for successful completion of two courses or tutorials (or the equivalent) drawn from the graduate list below. A GPA of 9.0 (B+) 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 0.5 credit written comprehensive examinations. Students will be examined in two fields.
- 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.
- 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. thesis. The thesis proposal defence should normally occur within six months after completion of a student's comprehensive examinations. The thesis committee will be composed of three faculty members, always including one from each university.
- a 7.0-credit thesis, which must be successfully defended in English at an oral examination.

Language Requirement

All doctoral students will be required to pass the Ph.D. program's language test. The language test entails the translation into English of a French text (or text in another approved language such as an Aboriginal language indigenous to Canada or another language if it is demonstrably relevant to their research interests). The language test is two hours in length, and students are permitted to use a dictionary. Grades for the language test are "Pass" or "Fail."

Students who have taken a language test as a requirement for their M.A. cannot use it to meet the Ph.D. language requirement. In order to establish equal treatment to all students, all doctoral candidates will be required to pass the Ph.D. language test.

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 abism, 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 course 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

Normally, full-time students should complete their comprehensive examinations within 24 months of their initial registration in the Ph.D. program. Part-time Ph.D. students should finish their comprehensive examinations within 36 months of completing course work. Both full-time and part-time students should normally complete their comprehensive examinations before defending their thesis proposal.

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 defend publicly 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).

Ph.D. Program in Native Studies

Telephone: (705) 748-1011 ext. 7443

Fax: (705) 748-1416

E-mail: nativestudies@trentu.ca

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 Indigenous 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 Indigenous cultures in content and process and reflect the interaction between traditional and contemporary Indigenous knowledge within the academic context. It is an interdisciplinary program developed and sustained in partnership with the Indigenous 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 Indigenous 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 Indigenous Elders and Traditional People, with Western academic perspectives. To this end the program brings together Indigenous and non-Indigenous students to study at an advanced level the historical, cultural and contemporary situation of the Indigenous People. Indigenous Elders and traditionally knowledgeable people are central to the program.

The program aims:

- to advance Indigenous Studies as an interdisciplinary field of study through the rebuilding and recognition of Indigenous knowledge and the creation of knowledge which reflects Indigenous experience.
- to make available to students, at an advanced level, education in Indigenous Studies that will enable graduates to employ a range of skills in the context of Indigenous communities, as well as in Indigenous and non-Indigenous organizations.
- to explore research methodologies appropriate to the creation of knowledge reflective of Indigenous experiences.
- to prepare students for careers in teaching, research, administration, business and government.

Graduate Program Director

L. Davis, B.A. (Queen's), M.A. (Sussex), M.A. (Alberta), Ph.D. (Toronto)

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 Indigenous community, faculty, students and staff from Trent, and faculty from other universities.

Faculty and Research Areas

Native Studies

M. J. Castellano (Mohawk), OC, O.Ont., B.A. (Queen's), M.S.W. (Toronto); LLD (Carleton, Queen's, St. Thomas), *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*. **D. Longboat** (Roroniho:ke:wen) (Mohawk), M.Ed. (York), Hon. B.A. (Trent), *Native Studies, environmental issues, Haudenosaunee traditional teachings*. **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.* **D. Newhouse** (Onondaga), B.Sc., M.B.A. (Western Ontario), *development of modern Aboriginal societies, governance, economies.* **S. I. Williams** (Emeritus) (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

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.*

Canadian Studies

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.*

Economics

S. Choudhry, M.A. (Chittagong, Bangladesh), M.A. (McGill), Ph.D. (Manitoba), *RCAP, DIAND, First Nations Consultants, economics and economic development.*

Education

D. P. Berrill, B.A. (Northwestern), M.A. (Toronto), Ph.D. (East Anglia), *Director, School of Education*

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.*

Politics

D. R. Morrison, M.A. (Saskatchewan), D.Phil. (Sussex), *bilateral aid, evaluating development assistance, CIDA and Canadian development assistance.*

Sociology

G. Balfour, B.Sc., M.A. (Ottawa), Ph.D. (Manitoba), *criminalization of Native Peoples, violence against Native women, feminist criminology and socio-legal theory.*

Adjunct Faculty

F. D. Abele, (B.A. (Calgary), M.A., Ph.D. (York), *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**, B.A. (Queen's), M.A., Ph.D. (McGill), *Anthropology, renewable resources, land claims, environment and hunter-gatherer issues.* **L. Fitznor**, BA (Manitoba), Med (Manitoba), Ph.D. (OISE/Toronto) *Education.* **B. Loucks**, (Anishnaabe), (B.A. (Western), M.Ed. (Toronto), *Public Administration, cultural research, curriculum development, language policy.* **D. McNab**, B.A. (Waterloo), M.A. (McMaster), Ph.D. (Lancaster). **K. Richard**, B.S.W., M.S.W. (Manitoba), *inter-cultural practices, child and family services.* **J. Sheridan**, B.S. (Waterloo), M.A. (California), Ed.M. (Harvard), Ph.D. (Alberta), *Environmental Sustainability and Indigenous Peoples.* **F. Wein**, B.A. (Queen's), M.A., Ph.D. (Cornell), *social work, Mikmaq cultural, educational and social issues.* **P. Williams** (Haudenosaunee), B.A. LL.B. (Western), LL.M. (York), *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.* **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%). Ideally, applicants will possess a Master's degree in the field of Indigenous Studies. However, given the limited number of Master's programs available in Indigenous Studies, highly-qualified students from other disciplinary-based graduate programs will be considered for admission. In some cases, students without a background in Indigenous Studies will be required to enroll in a qualifying year program in Indigenous Studies to ensure an adequate academic background in Indigenous 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 Bimaadiziwin/Atonhetseri:io 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 Indigenous language. Proficiency in an Indigenous language may be demonstrated by either: passing an examination in an Indigenous language administered by the Indigenous Studies department, or by presenting a transcript with a grade of B or better in an Indigenous 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 Indigenous 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 Company of Canada Limited Graduate Scholarship in Native Studies. 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 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. 7443

FIRST YEAR COURSES

Not all courses are offered every year.

NAST 600 – Indigenous knowledge

The course will examine theories of Indigenous Studies from interdisciplinary and experiential perspectives focussing on the nature of Indigenous thought as expressed through oral tradition, written texts and other sources. Indigenous Elders and Traditional people will participate extensively in the course. Topics include traditional and contemporary Indigenous culture, Indigenous history, theoretical perspectives pertaining to Indigenous peoples, the nature of Indigenous communities, and contemporary social, political and economic issues. Required of all students.

NAST 601 – Indigenous Studies theory and methods

The course will present students with a range of theoretical and methodological issues related to conducting research in Indigenous communities. A number of Indigenous and Western approaches to the construction of knowledge will be examined, with a view to developing 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 Indigenous governance in a broad context and explores issues central to emerging Indigenous governments. It also examines emerging Indigenous political theory and practice. This course is required of all students.

NAST 605H – Indigenous Studies history and politics

This second term course will examine the history of inter-cultural relations between Indigenous 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, Indigenous decolonization 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 610H – Social and cultural issues in Indigenous Studies

This second term course will examine a wide range of social and contemporary issues as they affect Indigenous Peoples in Canada including: contemporary revitalization of traditional Indigenous culture, models of Indigenous community development, development of Indigenous 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 Indigenous community or organization; or conducting an independent study. Students will work under the supervision of a faculty member and/or designated members of the Indigenous 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 Indigenous 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 Indigenous 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 whom 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 Indigenous Studies: History and politics for comprehensive examination**NAST 710H – Reading course in social and cultural issues for comprehensive examination****NAST 715H – Bimaadiziwin/Atonhetseri:io**

This experiential option requires students to participate in a significant Indigenous 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 Indigenous Studies department concurrently with the Bimaadiziwin/Atonhetseri:io option (i.e. NAST 211 – Indigenous 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 Indigenous Studies at an advanced level, particularly as they relate to Indigenous knowledge and Western theoretical perspectives. Students will refer to the Indigenous 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 Indigenous 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.

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

Fax: (705) 748-1829

E-mail: theory@trentu.ca

Web: www.trentu.ca/theorycentre

Interdisciplinary in spirit and theoretical in emphasis, this M.A. program focusses on contemporary issues in the humanities and social sciences from the perspectives of contemporary critical, cultural and political theory. 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) and on a Master's thesis. An annual speakers' series is organized in conjunction with the T500 seminar. 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 historicity, science and culture, borders and boundaries, rethinking the political, and 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

V. Hollinger, M.Ed. (Newcastle), M.A., Ph.D. (Concordia)

Canada Research Chair

D. Panagia, B.A. (Manitoba), 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. (UBC), 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*. **V. de Zwaan**, B.A. (Trent), M.A. (McGill), Ph.D. (Toronto), *narrative and genre theory; experimental fiction; history of the novel; literary theory; comparative literature; hypertext and new media fiction*. **R. Dellamora**, M.A. (Cambridge), Ph.D. (Yale), *Victorian studies, aestheticism and 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.Ed. (Newcastle), M.A., Ph.D. (Concordia), *queer and feminist speculative fiction, feminist theory, performance theory, post-modern theatre*. **I. Junyk**, B.A. (Western), M.A. (Queens), Ph.D. (Chicago), *modernism and the avant-garde, classicism and myth, opera/trauma/memory and history, the contemporary novel*. **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), *subcultures, anarchism and the "anti-globalization" movement, sociology of culture, mass media, intellectual fields, Latin American studies*. **D. Panagia**, B.A. (Manitoba), M.Litt.

(Oxford), M.A., Ph.D. (Johns Hopkins), *post-structuralism, aesthetics, political thought, literary theory, historiography and rhetoric*. **J. Penney**, B.A., M.A. (Alberta), Ph.D. (Duke), *psychoanalysis, queer theory, postcolonial theory, Lacan, Marx*. **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), *theories of the body and subjectivity; inscriptions of gender and race; French feminism*. **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*. **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, Merleau-Ponty, Hegel, Bergson*. **E. Stavro**, M.A., Ph.D. (Toronto), *feminist theory, contemporary French philosophy, reproductive technology*.

Politics

N. Changfoot, B.A. (York), M.A. (Carleton), Ph.D. (York), *Canadian politics, political theory, women and politics, cultural citizenship, social movements, Hegel and feminist thought*. **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 equivalents, 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 2006–2007 will include four 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 590/590H – Reading courses

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. Three 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 three main areas of emphasis:

1. Ecological processes and Ecosystem Function
2. Physical and Chemical Environmental Processes
3. Toxicology and Fate of Contaminants

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

To be named

Faculty and Research Areas

Biology

M. Berrill, B.Sc. (McGill), M.Sc. (Hawaii), Ph.D. (Princeton), *ecology and toxicology of amphibians*. **I. Brenner**, R.N., B.Sc. (Toronto), B.Phys.Ed. (Toronto), B.Sc.N. (Toronto), M.Sc. (Queen's), Ph.D. (Toronto), *exercise and environmental stress*. **Craig Brunetti**, B.Sc., Ph.D. (McMaster), *molecular biology of human poxviruses*. **G. Burness**, B.Sc. (Memorial), M.Sc. (Brock), Ph.D. (British Columbia), *animal energetics, avian physiological ecology*. **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*. **L. Kerr**, B.Sc., M.Sc., (Carleton), Ph.D. (British Columbia), *behavioral neuroscience, cellular mechanisms, cancer growth and chemotherapeutic efficiency*. **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*. **M. A. Xenopoulos**, B.Sc., M.Sc. (Québec), Ph.D. (Alberta), *global change and its effects on aquatic communities in lakes and rivers*. **J. Yee**, B.Sc. (Toronto), M.Sc. (Queen's), Ph.D. (British Columbia), *molecular and biochemical studies of Giardia lamblia*.

Environmental & Resource Science/Studies

J. Aherne, B.A. (Trinity College, Dublin), M.Appl. Sc., Ph.D. (University College Dublin), *impacts and disturbance on aquatic and terrestrial ecosystems*. **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*. **M. Fox**, B.A. (Pennsylvania), M.E.DES. (Calgary), Ph.D. (Queen's), *fish ecology, pond culture*. **M. Havas**, 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. **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., (Emeritus) *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 meta(l)oids, particularly arsenic, selenium and chromium, in natural and industrial environments.* **S. Watmough**, B.Sc. (Liverpool Polytechnic), Ph.D. (Liverpool John Moores), *impacts of acid rain, climate change, nutrient depletion, forestry and metals on forest and lake ecosystems.* **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.* **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., M.Sc. (Michigan), Ph.D. (Michigan), *impacts of development on aquatic communities. Great Lakes Science Center, Michigan.* **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 radioisotopes with ground water and lakes (Atomic Energy of Canada).* **B. J. Cosby**, B.S., Ph.D. (Virginia), *chemical and physical processes in aquatic environments.* **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).* **N. Jones**, B.Sc. Hon. (Guelph), Ph.D. (Alberta), *fish habitat and the productive capacity of aquatic ecosystems.* **D. R. S. Lean**, B.A.Sc. (Toronto), Ph.D. (Toronto), *phosphorus cycling, nutrient dynamics (NSERC Industrial Chair, Carleton).* **N.P. Lester**, B.A., M.Sc. (Queen's), D. Phil. (Sussex), *Fish ecology and fisheries science; life history traits and population dynamics of fish; effects of fish harvesting on aquatic ecosystems.* **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). **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). **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 2 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. Students must have a supervisor before acceptance in the program. WEGP500H is compulsory for all first-year M.Sc. students. Students without training in advanced statistics are strongly recommended to take WEGP501H as well. Students are permitted to take a maximum of one reading course. 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 enroll 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 qualifying 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. 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 Graduate Studies.

Further Information

More detailed information about the program is contained online at www.trentu.ca/wegp.
Inquiries should be addressed to the director of the program (Phone (705) 748-1011 ext. 1360
or e-mail: wegp@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.

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 strongly 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 BIOL – ERSC 303H.

WEGP 505H – The hydrochemistry of forested catchments

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 GEOG 404H.

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 ERSC 406H.

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.

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 GEOG 445.

WEGP 513H – Topics in molecular ecology

This course will consist of an introduction to 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.

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.

WEGP 515H – AMOD551H – 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.

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.

WEGP 527H – Ecological applications of GIS and spatial analysis

This course focusses 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.

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 years.

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.

WEGP 531H – 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.

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.

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.

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 applicable to various spatial and temporal data sources for natural resource assessment and management. Practical data analysis exercises are part of the course.

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.

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. Pre-requisite: fourth year geochemistry.

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.

WEGP 577H – Ecological physiology of animals

This course will expose students to current topics in animal physiology. Content will be tailored to the interests of participants, but may include: stress physiology, diving physiology, origins of endothermy, fasting in natural populations, high altitude physiology, and freeze tolerance. Students will present seminars, write a review paper on a selected topic, and lead and participate in the discussion of published papers. Students are assumed to have a familiarity with basic concepts of physiology and evolution.

WEGP 591/590H – 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. Under exceptional circumstances, and subject to program approval, a student may also register under the WEGP 590 or WEGP 590H course number to take a course from another academic institution for credit.

WEGP 595H – Senior undergraduate course

This course is offered to students wishing to take a 300- or 400-level undergraduate course at Trent for graduate credit. Students will normally undertake all the regular course requirements, as well as a supplementary graduate-level assignment (to be arranged with the course instructor). Students must obtain the prior written permission of the course instructor and the WEGP Director.

Trent/Queen's Program

Telephone: (705) 748-1011 ext. 7505
Fax: (705) 748-1625

E-mail: graduate@trentu.ca
Web: www.trentu.ca/tqgp

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 apply using a two stage process. At stage one students complete an online Trent University graduate studies application form and arrange for all supporting documentation to be forwarded to the Office of Graduate Studies at Trent University. Students who are recommended by Trent proceed to stage two at which time they are advised to complete an online Queen's University application form. All supporting documentation previously received at Trent is then forwarded to Queen's University.

Associate Director

To be named

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

D. A. Ellis, B.Sc. (Glasgow), M.Sc. (Aberdeen), M.Sc. (Toronto), Ph.D. (Toronto), *analytical and organic environmental chemistry, spectroscopy, environmental modelling, fate and distribution of organics*. **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 & Astronomy

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*. **R. C. Shiell**, B.A. Physics (Oxford), Ph.D. (Newcastle upon Tyne), *atomic molecular and optical physics*. **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*.

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

GREK 590: Special topic in Greek literature

LATN 590: Special topic in Latin literature

Chemistry

CHEM 500H: Advanced topics in physical chemistry

CHEM 501H: Electrochemistry

CHEM 502H: Chemical processes

CHEM 511H: Synthetic organic chemistry

CHEM 520H: Selected topics in inorganic chemistry

CHEM 530H: Plant metabolism

Physics

PHYS 500H: Quantum mechanics

PHYS 501H: Advanced quantum mechanics

PHYS 510H: Surface science

PHYS 520H: Nuclear physics

PHYS 530H: Statistical mechanics

PHYS 540H: Solid state physics

PHYS 550H: Electromagnetism

PHYS 551H: Electrodynamics

PHYS 590: Advanced topics

Office of Research

The Office of Research supports the university community in its mission to "advance learning through the creative interaction of teaching and research of the highest quality." Responsible for achievement of Trent's research goals and objectives, the Office of Research works in cooperation with other departments to implement the University's strategic research plan. The Office of Research is responsible for the coordination and promotion of research and scholarship within the University.

In particular, the Office of Research works with local, regional, national and international members of the research community to promote and steward: excellence in research; a diversity of research; an emphasis on interdisciplinary research; responsible for provision of resources to researchers; the involvement of students in research, and training of highly qualified personnel; open accountable research practices.

Mailing Address

Trent University, 1600 West Bank Drive, Peterborough, Ontario K9J 7B8

Office Location

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Telephone: (705) 748-1011 ext. 7050

E-mail: research@trentu.ca

Fax: (705) 748-1587

Web: www.trentu.ca/research

Associate Vice- President Research

J. Parker, B.A. (Simon Fraser), M.A., Ph.D. (York)

Co-ordinator, Office of Research

C. J. Smith, B.A. (Trent), M.Ed. (Toronto)

Research Project Officer (Pre Award)

C. Rigby, B.Sc., M.B.A. (Dalhousie)

RESEARCH CENTRES

Trent University has a number of interdisciplinary Research Centres which represent clusters of faculty and graduate students with shared research interests. These Centres 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 provide an exciting academic environment for graduate students and faculty at Trent. For further information on Research Centres check www.trentu.ca/research/centres.html

Canadian Environmental Modelling Centre

Contact: **D. Mackay**, *Environmental & Resource Science/Studies*, E-mail: cemc@trentu.ca

The mission of the Canadian Environmental Modelling Centre (CEMC) 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 CEMC 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 CEMC 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. The CEMC is a part of the larger, multi-university Canadian Environmental Modelling Network (CEMN) and actively collaborates with other researchers both nationally and internationally.

Centre for Health Studies

Contact: **D. Kennett**, *Psychology*, E-mail: dkennett@trentu.ca

The objectives of the Centre 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.

Centre for the Study of Theory, Culture & Politics

Contact: **V. Hollinger**, *Cultural Studies*, E-mail: vhollinger@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 & 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 (p. 331), and the Ph.D. in Canadian Studies jointly administered by the Frost Centre and the School of Canadian Studies at Carleton University (p. 336). The Frost Centre works closely with Trent's established departments in the Humanities and Social Sciences as well as its interdisciplinary programs.

James McLean Oliver Ecological Centre

Contact: **T. C. Hutchinson**, *Environmental & 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 Centre for Materials Research

Contact: **A. J. Vreugdenhil**, *Chemistry*, E-mail: avreugdenhil@trentu.ca

The Trent Centre 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 Centre brings together Trent faculty with research interests in applied materials research, currently in the departments of Chemistry and Physics & Astronomy. 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 Centre holds research seminars as part of, and in addition to, the weekly Physics/Chemistry seminar series. For more information, see www.trentu.ca/TIMR

Trent International Political Economy Centre

Contact: **M. Neufeld**, *Politics*, Director, E-mail: mneufeld@trentu.ca; **A. Pickel**, *Politics*, Deputy Director, E-mail: apickel@trentu.ca

The Trent International Political Economy Centre aims to strengthen Trent University's research capacity in the area of international political economy (IPE). We are particularly interested in critical approaches to the study of global order focussing on power relations produced by economic globalization. Critical perspectives include a questioning of assumptions underlying mainstream perspectives in both academia and the larger political debate. TIPEC activities will include the sponsoring of an annual workshop, various academic talks, visiting scholars, a working paper series, and other publications. We are committed to a cross-disciplinary approach to the analysis of global political economy, inviting participation from various disciplines.

Trent University Archaeological Research Centre

Contact: **J. Conolly**, *Anthropology*, E-mail: jconolly@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 material culture, 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 centre 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 and a computer laboratory dedicated to the analysis of archaeological data. 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. TUARC also works closely with Trent's M.A. program in Anthropology providing a forum for graduate students and professional archaeologists to meet and discuss current research in the discipline.

Water Quality Centre

Contact: **Kate Klenavic**, *Business Manager*, Email: kateklenavic@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*, 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 focusses 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: **R. Metcalfe**, *Ontario Ministry of Natural Resources*, E-mail: wsc@trentu.ca or rmetcalfe@trentu.ca

The Watershed Science Centre is a partnership of Trent University, Fleming College, and the Ministry of Natural Resources. Its goal is to further the understanding of physical and ecological processes governing watershed function and to develop and transfer this knowledge, associated methods, and tools to support water management decision making. The Centre fosters multi-disciplinary collaboration using the significant research expertise in watershed ecosystem science of Trent University, extensive resource management and GIS (Geographical Information Systems) expertise of Sir Sandford Fleming College, and the applied research, management and policy expertise of the Ministry of Natural Resources. Complementing this partnership is collaboration with other government agencies, academic institutions, non-government organizations, and the private sector. The Centre efficiently transfers watershed science knowledge and methods to water management practitioners through publications, courses, workshops, and conferences.

Academic Calendar 2006–2007



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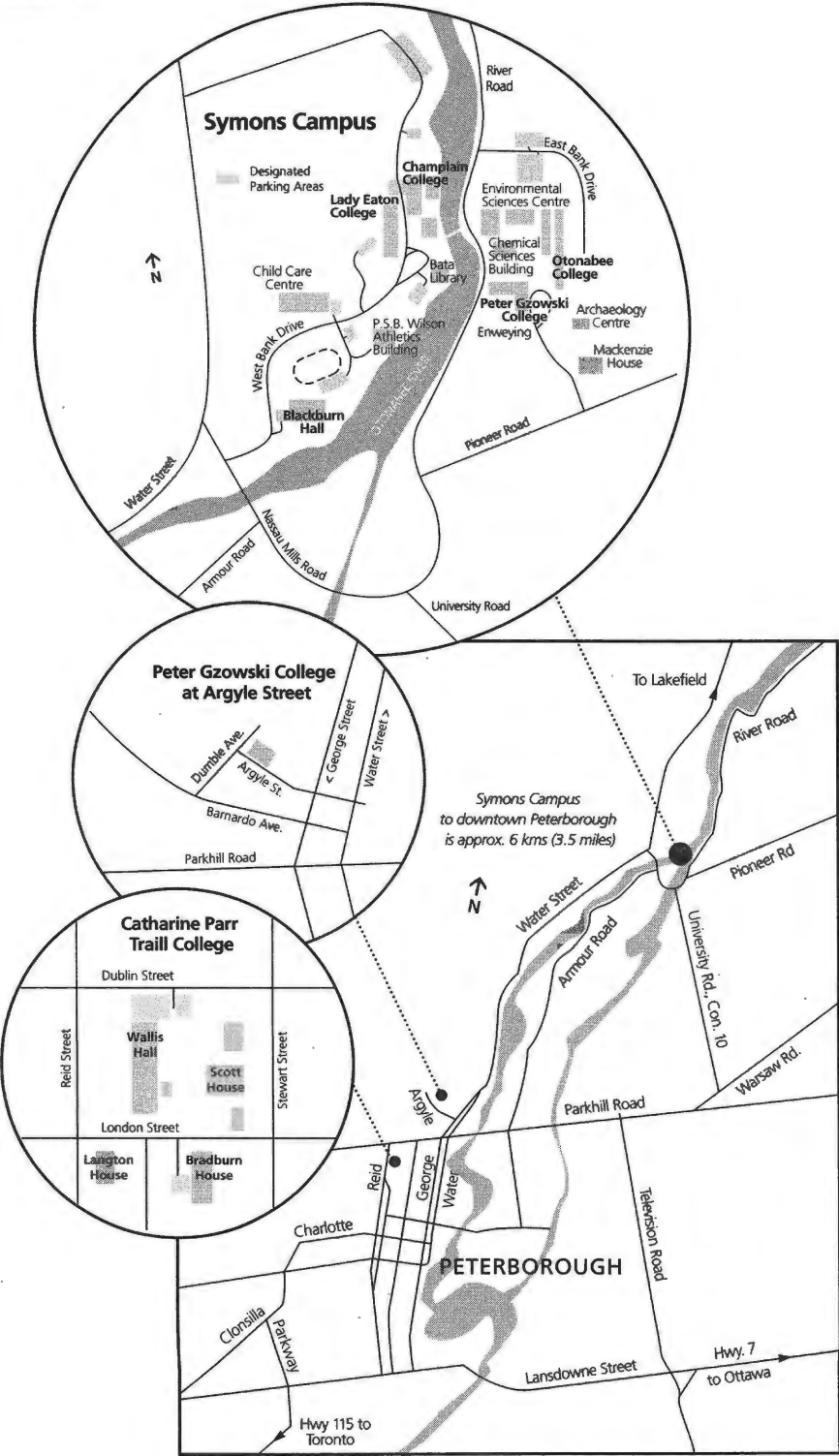
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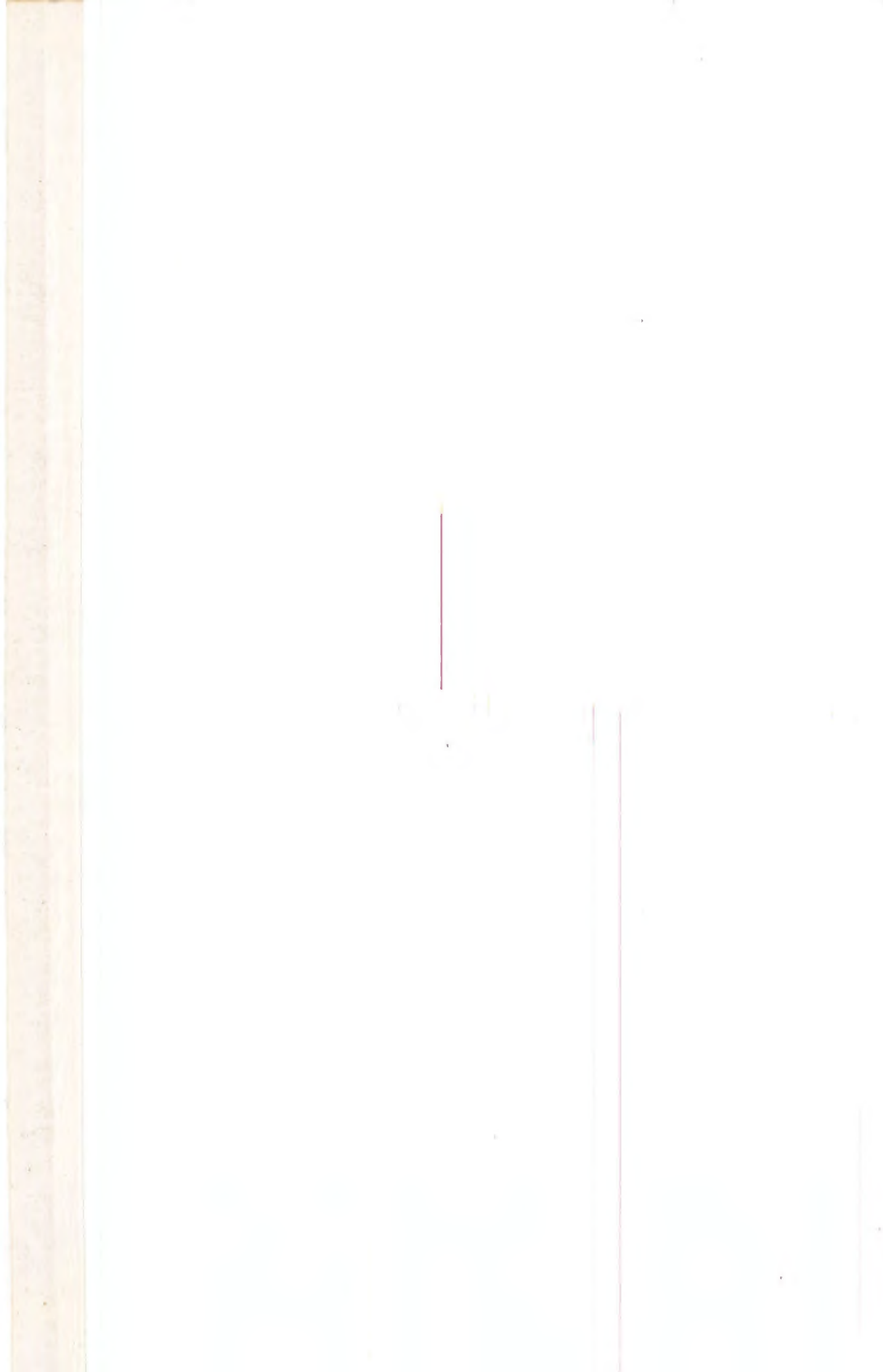
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MAPS







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