

TRENT UNIVERSITY



**Graduate and Undergraduate
CALENDAR
2000 • 2001**

The Thirty-Seventh Academic Year
2000-2001

TRENT UNIVERSITY CALENDAR

Undergraduate and Graduate Programs



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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2000

MESSAGE FROM THE PRESIDENT



Bonnie M. Patterson

I am pleased to introduce you to Trent University's first Academic Calendar of the new century.

The 2000-2001 Calendar is Trent's most authoritative academic publication that details the variety of interesting subject and program offerings available for students either in their undergraduate experience or in graduate studies. It's also a valuable roadmap to help you make decisions about what courses and fields of concentration to pursue in what order, what undergraduate majors, minors, emphases and joint programs are available. The University Diary is an important reference for you throughout the entire academic year. You'll also find other useful information on student and alumni services, financial support, regulations, the governance structure of the university, and our evolution.

Although we're a relatively youthful university having celebrated our 35th anniversary last year, we have earned an outstanding reputation as a small university that focuses on the development of the individual. Our strong undergraduate liberal arts and sciences curriculum is delivered through emphasizing interactive faculty-student contact and small group learning. We also have significant and nationally-recognized strengths at the graduate level in selected interdisciplinary fields, including two nationally-acclaimed doctoral programs in Watershed Ecosystems and Native Studies (a Canadian first).

The most recent issue of Maclean's magazine ranking Canadian universities placed Trent #1 in faculty research awards among the nation's Primarily Undergraduate universities, and second nationally on the number of awards per faculty among all Canadian universities in this important area of our university mission.

Trent graduates often comment on the personal attention they received in the environment at Trent. I am delighted when employers also credit Trent University with preparing employees who are articulate, versatile, problem-solvers who demonstrate both teamwork and leadership skills.

In the spirit of providing students with optimal educational opportunities, we have many program linkages with neighbouring institutions. These include: Queen's University (Teacher Education and Graduate Studies), Sir Sandford Fleming College (Geographical Information Systems, Museum Management, Nursing, Police Administration and Child and Family Studies), York University and Durham College (through the University Centre at Durham in Oshawa). Trent students may pursue courses of study either full-time or part-time at the Oshawa location in nine disciplines leading to a Bachelor of Arts or Bachelor of Science degree.

An educational experience at Trent University, or through our partnerships, will benefit you during and long after your student days. In addition to quality academic programs, Trent provides value-added student resources that strive to support your success.

I extend you best wishes on your Trent educational journey this year.

Bonnie M. Patterson

ABOUT TRENT

Trent University is located in Peterborough, Ontario, an hour and a half northeast of Toronto and about three hours from Ottawa. The University's main campus, the Symons Campus sits on a 580-hectare property, much of it preserved as nature area, along both banks of the Otonabee River at the northern edge of the city. Currently, the University also has campuses in downtown Peterborough and one in Oshawa in partnership with 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 Prime Minister 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. Thorn, a long-range plan was devised, and the Symons Campus is now home to three residential colleges, the main library, two science buildings, a child care facility and central administrative offices, along with recreational facilities which include an athletic complex, playing fields, tennis courts and rowing facilities. In addition to the residential colleges, part-time study is offered through the Julian Blackburn College for continuing education.

Now in its thirty-seventh teaching year, the University has approximately 3,800 undergraduates in the full-time program, and 1,200 part-time students.

In addition, there are 159 Master's degree candidates in the five fields in which graduate studies are offered and 22 Ph.D. candidates in Native Studies and Watershed Ecosystems. Trent is also host to four graduate students from Queen's University who are studying and conducting research at the University under the Trent-Queen's Co-operative Agreement.

Trent's Residential Colleges

Trent's residential colleges are central not only to the organizational structure of the University, but to the academic and social experience of Trent students. The colleges provide much more than housing for students who wish to live on-campus. 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 intellectual and social 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 remain centres of learning and focal points of social and cultural activity.

Interactive Learning

Trent University stresses the importance and the value of a liberal undergraduate 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. Three-quarters of classes at Trent have fewer than 25 students.

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

IMPORTANT NOTICES

The Calendar on the Web

Two versions of the 2000-2001 Academic Calendar appear on Trent's Website:

A static version reflects the 2000-2001 Calendar as it appears in this publication. This version will be updated once only, in the Summer, to reflect the Calendar revisions as they appear in the *Supplement to the 2000-2001 Academic Calendar*.

A dynamic version of the Calendar is updated regularly to reflect ongoing changes to policy, regulations, course offerings and other Calendar items. This version includes a *Record of Revisions*, which lists all changes and updates to the Calendar since its March 2000 publication.

Both on-line versions of the 2000-2001 Academic Calendar can be found at www.trentu.ca/calendar.

The contents of this Calendar are not necessarily final and complete. Changes may occur in a number of areas including:

1. new faculty appointments or departures;
2. courses, including withdrawal of courses listed as being offered;
3. policies and procedures related to applications, admissions, and registration for new and returning students;
4. regulations;
5. fee structure;
6. University Diary.

The University reserves the right to make and implement changes subsequent to the publication of this Calendar, as it deems appropriate.

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 are appropriate and sufficient to the program requirements. Students are bound by the regulations and policies of the University.

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.

Notes

- 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. Trent University recognizes its responsibility to those of its students, faculty and staff with special needs. It undertakes to ensure access to its academic programs and physical facilities, short of undue hardship, while protecting the academic integrity of the University.
- Trent University is a smoke-free institution.
- The Trent University Calendar is produced for the Office of the Dean of Arts and Science by the Registrar's Office.
- Tours or visits to the University can be arranged by contacting the Registrar's Office, Trent University, Peterborough, Ontario K9J 7B8. (705) 748-1332. <http://www.trentu.ca>

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STATEMENT OF GOALS

1. To create a teaching, learning, research and living environment fundamentally committed to the promotion of free inquiry and expression.
2. 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.
3. 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.
4. To sustain and enhance opportunities for research and scholarly activity of the highest standard.
5. 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.
6. 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.
7. 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

1. Recruit and retain students from within and beyond Canada who will benefit from Trent's programs and who will contribute to university life.
2. 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.
3. Develop new opportunities for small group teaching and individualized learning.
4. 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.
5. Employ and retain excellent faculty who contribute actively to the advancement of learning through teaching, research, service and professional development.
6. Employ and retain excellent academic and administrative support staff and ensure adequate opportunities for their professional development.
7. Create and sustain an environment (intellectual, physical, fiscal and social) that advances learning through quality teaching and research while encouraging respect, tolerance and sensitivity.

UNIVERSITY DIARY

Readers are advised that changes may occur to the dates contained in the University Diary. Students will be notified if significant changes occur, and alterations in dates will be published in the Supplement to the Calendar in August. Where a deadline falls on a weekend, the following Monday will apply.

Summer Session 2000 *(For Summer Session deadline dates, see chart p. 11)*

May

- 12 Friday Final date for receipt of grades for incompletes and Letter of Permission courses for those planning to convocate in the Spring
- 16 Tuesday Meeting of the Senate
- 22 Monday Statutory Holiday: "Victoria Day"
- 30 Tuesday Final date for payment of deposit against residence fees by returning students

June

- 2 Friday **Convocation**
- 13 Tuesday Final date to request Summer Session Letters of Permission
Final date for receipt of applications and supporting documentation for full-time admission to Trent University
- 28 Wednesday Final date for receipt of grades for incompletes from the Fall/Winter Session

July

- 1 Saturday Statutory Holiday: "Canada Day"
- 13 Thursday **Final date for appeals of full and Winter half courses**
Final date for receipt of appeals against academic penalties
- 31 Monday Statutory Holiday: "Civic Holiday"

August

- 14 Monday Final date to request Fall/Winter Session Letters of Permission
Final date for receipt of applications, registration forms and supporting documentation from new and re-admit part-time applicants for admission to the University
Deadline for Official Registration for continuing students

Fall/Winter Session 2000-2001

Fall Session 2000

September

<i>Date TBD</i>	First instalment of fees is due
4 Monday	Statutory Holiday: "Labour Day" Arrival of new students
5 Tuesday	Introductory Seminar Week begins
8 Friday	Registration for new full-time students Final date for new student registration, without late fee Final date for receipt of Application for Degree/ Diploma Assessment for Fall eligibility
10 Sunday	Arrival of returning students
11 Monday	Classes begin Beginning of formal course change period using Official Change Form
15 Friday	Final date for full-time re-admit and transfer students to register, without late fee
22 Friday	Faculty Board Meeting
25 Monday	Final date for rebate on college fees for transfers from full to part-time status from full- to part-time status
26 Tuesday	Meeting of the Senate
28 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"
29 Friday	Final date for registration with late fee Final date to change or add Fall half courses Final date to change or add full courses without late fee Final date for students to notify the Registrar's Office of their wish to observe their cultural or religious holidays during scheduled examination periods

October

9 Monday	Statutory Holiday: "Thanksgiving Day"
14 Saturday	Annual University Open House
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 fee
31 Tuesday	Meeting of the Senate

November

10 Friday	Final date for withdrawal from Fall half courses without academic penalty
24 Friday	Final date to request Letters of Permission for courses beginning January, 2001 Faculty Board meeting
28 Tuesday	Meeting of the Senate

December

9 Saturday	Last day of classes
11 Monday	Scheduled mid-term test and Fall half course final examination period begins
16 Saturday	Mid-term test and Fall half course final examination period ends, 10:30 p.m.
17 Sunday	Winter Vacation and Reading Period begins College residences close 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
25 Monday	Statutory Holiday: "Christmas Day"
26 Tuesday	Statutory Holiday: "Boxing Day"

Winter Session 2001

January

- 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
- 28 Sunday **Final date for receipt of Application for Degree/Diploma Assessment for Spring Convocation**
Final date for receipt of applications for all second term bursaries listed in Calendar

February

- 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

March

- 9 Friday **Final date for withdrawal from Winter half courses without academic penalty**
Faculty Board meeting
- 12 Monday **Final date for appeals for Fall half courses**
Final date for application for transfer between colleges for students seeking residence
- 13 Tuesday Meeting of the Senate
- Mid-March Ontario Secondary School applicants begin receiving full-time offers of admission.
March Break programs for applicants.

April

- 5 Thursday **Final date for full-time and part-time continuing students to early register without late fee**
Application deadline to transfer from part-time to full-time studies
- 6 Friday Faculty Board meeting
- 7 Saturday Classes end
- 10 Tuesday Meeting of the Senate
- 12 Thursday Examinations begin for Winter half and full courses
- 20 Friday Statutory Holiday: "Good Friday"
- 28 Saturday Examinations end for Winter half and full courses, 10:30 p.m.
Final date for non-resident students to apply for residence
Final date for application for transfer between colleges for students not seeking residence

Summer Session 2001 *(For Summer Session Deadline Dates See Chart p. 11)*

May

- | | | |
|------|---------|--|
| 11 * | Friday | Final date for receipt of grades for incompletes and Letter of Permission courses for those planning to convocate in the Spring
*(3 weeks before convocation) |
| 21 | Monday | Statutory Holiday: "Victoria Day" |
| 29 | Tuesday | Final date for payment of deposit against residence fees by returning students |

June

- | | | |
|----|-----------|--|
| 1 | Friday | Convocation |
| 12 | Tuesday | Final date to request Summer Session Letters of Permission
Final date for receipt of applications and supporting documentation for full-time admission to Trent University |
| 27 | Wednesday | Final date for receipt of grades for incompletes from the Fall/Winter Session |

July

- | | | |
|----|----------|--|
| 1 | Sunday | Statutory Holiday: "Canada Day" |
| 14 | Saturday | Final date for appeals of full and Winter half courses
Final date for receipt of appeals against academic penalties |

August

- | | | |
|----|--------|---|
| 6 | Monday | Statutory Holiday: "Civic Holiday" |
| 12 | Sunday | 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
First instalment of fees is due for all students
Deadline for Official Registration for continuing students |

IMPORTANT DEADLINE DATES

Summer Session Deadline Dates 2000

	8 week term	12 week term	6 week term
Final date for receipt of applications for admission or re-admission with supporting documentation	April 15	April 15	June 15
Final date for all students to register without late fee	April 20	April 20	June 20
Classes begin	April 30	May 3	July 5
Final date for all students to register with late fee. Final date to add courses	May 10	May 15	July 10
Final date for withdrawal	May 30	June 15	July 25
Classes end	June 26	July 25	August 14
Examination period begins*	June 28	July 26	August 16

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

Summer Session Deadline Dates 2001

	8 week term	12 week term	6 week term
Final date for receipt of applications for admission or re-admission with supporting documentation	April 14	April 14	June 15
Final date for all students to register without late fee	April 16	April 16	June 19
Classes begin	April 30	May 1	July 2
Final date for all students to register with late fee. Final date to add courses	May 7	May 80	July 3
Final date for withdrawal	May 25	June 9	July 23
Classes end	June 25	July 26	August 13
Examination period begins*	June 25	July 31	August 15

* 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.

INTERNATIONAL EDUCATIONAL OPPORTUNITIES

Trent University has a long history of enthusiastically promoting international studies and successfully encouraging international students to study at Trent.

Trent International Study and Exchange Program (TISEP)

Trent maintains a number of formal exchange agreements with universities in Europe, the United States, Latin America, Africa and Asia. The Trent International Program (TIP) provides study abroad opportunities for students in all disciplines at universities throughout the world. Specific departmental Study Abroad Programs are also offered through Administrative Studies (France), Comparative Development Studies (Ecuador, Ghana), Environmental and Resource Studies (England), Modern Languages and Literature (France, Germany, Mexico), Native Studies (Thailand), Political Studies (Germany) and Physics (England).

International Entrance Scholarships

International Entrance Scholarships enable excellent scholars from around the world to study at Trent, thereby enhancing the international character of the University and contributing to an intellectually challenging and culturally exciting environment for all members of the Trent community. These awards are based on high academic standing and international and community service. Preference is 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.

Bursaries – International Study Awards

Bursary funds are made available through a variety of International Study Awards designed to encourage and support the broadening of students' 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 complete list of International bursaries.

Trent International Program (TIP)

Telephone (705) 748-1314

E-mail: tip@trentu.ca

Fax: (705) 748-1626

Web: www.trentu.ca/tip

Director: David Morrison (705) 748-1280

International Programs and Services Manager: Cynthia Bennett Awe (705) 748-1300

International Student Recruiter and Admissions Officer: Jessica Tudos (705) 748-1696

Co-ordinator TRENT-ESL: Fausta Capogna (705) 748-1805

INSTRUCT Project Manager: Linda Slavin (705) 748-1023

Program Assistant: Deborah Gelderland (705) 748-1314

Secretaries: Elena Koudiakova (705) 748-1067 Donna Ronaldson (705) 748-1673

Trent International Students' Association: (705) 748-1314

The Trent International Program (TIP) offers an exciting opportunity for students from many countries to live and study together in a global community. Students in the program, many of whom are interested in pursuing 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 is open to all Trent students, and has drawn participants from more than 110 countries and 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 the same course offerings available to all Trent students. TIP students gather together regularly to explore international issues through a World Affairs Colloquium, and the program organizes 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 International Studies or complement their major or joint majors with an Emphasis in International Studies. (See *International Studies in the Programs of Study* section of the Calendar.)

TRENT-ESL: English for University

The Academic Skills Centre, in co-operation with the Trent International Program, offers TRENT-ESL: English for University, a program designed for students who meet all requirements for admission to Trent except that of English-language proficiency (TOEFL computer-based score of 213, paper-based score of 550 or equivalent). Students who are placed in the Intermediate and Advanced levels may begin to take credit courses immediately. After having successfully completed the Advanced level program (CAEL score of 60 or higher), students can proceed to full-time degree studies. For further information or to obtain an application form for TRENT-ESL: English for University, contact the Trent International Program or visit our website at www.trentu.ca/tip.

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 matters, finances, scholarships, health insurance, language proficiency, consumer services, academic challenges and residential life.

Study-Abroad Opportunities

TIP students are encouraged to spend one year of their undergraduate program studying in another country. The Trent International Study and Exchange Program (TISEP) offers exchange and study-abroad opportunities in several countries, including England, Scotland, Wales, Finland, Iceland, Spain, France, Israel, South Africa, Malaysia, Korea, Japan, the United States and Mexico. The year abroad is normally the third year of the student's four-year program. Students may participate in a TIP exchange or co-ordinate, with TIP's assistance, their own study-abroad arrangements.

Pre-planning for the year abroad should begin as early as the course selection process during the student's first year. The formal process begins in the Fall session of the student's second year, when students attend TISEP Information Sessions and the Work Study Abroad Fair, and fill out application forms, which are available at the TIP Office. The deadline for submitting applications is February 1. Applications are reviewed and approved by the TISEP Advisory Committee, and then forwarded for consideration by host universities. Students are notified by mid-April of their acceptance. Placement in a host university is confirmed upon successful completion (with the maintenance of an overall B average) of their current academic year, and their participation in pre-departure sessions.

INSTRUCT: Inter-American Networking for Studies and Training in (Natural) Resource Usage for Community Transformation

Trent University is the lead institution in INSTRUCT, a multi-year partnership of university, college, community and non-governmental organizations. INSTRUCT is funded by the Canadian International Development Agency (CIDA) and by the program's partners in Canada and abroad. Committed to promoting integrated ecosystem approaches to the rehabilitation and management of watersheds, the program is engaged in research, education and training, and community development in Ecuador and Mexico.

For more information on undergraduate scholarships, seminars and graduate research opportunities, contact the TIP office, or visit the INSTRUCT Website at www.trentu.ca/admin/tip/instruct.

Trent International Students' Association (TISA)

The Trent International Students' Association is a student-run organization involving both Canadian and international students. TISA works closely with TIP to foster a campus environment that encourages and supports cultural diversity. Membership is open to all Trent students who wish to internationalize their experience at Trent.

TISA members have a rare opportunity to obtain valuable leadership skills while experiencing and participating in a cross-cultural environment. Students organize a wide variety of activities, including festivals, lectures, debates, films and guest speakers, all designed to enhance and deepen awareness of international themes and global issues.

Other Internationally Oriented Groups

Several other internationally-oriented clubs and groups are also active on campus and maintain ties with TIP. These include Asian Dialogue at Trent (ADAT), Trent African and Caribbean Students' Union (TACSU), Hispanic Organization of Latin Awareness (HOLA), Trent Chinese Students Council (TCSC), Trent Muslim Students Association (TMSA), Comparative Development Students' Association, World University Service of Canada (WUSC), Canadian Crossroads International, Ontario Public Interest Research Group (OPIRG) and the Kawartha World Issues Centre (KWIC), a local global educational NGO.

COMMUNITY-BASED EDUCATION PROGRAM

Telephone: (705) 743-0238

E-mail: tccbe@trentu.ca

Fax: (705) 743-3318

Trent Centre for Community-Based Education

267 Stewart Street, Peterborough, Ontario K9J 3M8

The Community-Based Education Program is a new approach to cooperative education. Students are placed with community organizations in the surrounding region to assist them with research and related planning and development projects. The program exists in order to:

- provide students with real-world experience in their field of study, enhancing their future employment prospects,
- assist community organizations and ultimately the community in research and related work that otherwise might not be undertaken, and
- increase the level of co-operation and partnership between Trent University and the broader Peterborough community.

The Community-Based Education Program is a collaborative initiative of the Frost Centre of Trent University, The Peterborough Social Planning Council and the Community Opportunity and Innovation Network. It is administered at the Trent Centre for Community-Based Education (TCCBE) by a Management Committee that consists of representatives of these groups and the community at large.

Arrangements for community research projects. Community organizations interested in having research projects undertaken through the Community-Based Education Program are invited annually to submit proposals in a specific format by August 1. The TCCBE then sends copies of each proposal to the faculty and academic departments/programs whose expertise is relevant to the proposal. They, in turn, seek students who would be interested in undertaking the research for academic credit. This could be done as an assignment within a regular course, as a separate course, or as a thesis. The separate course options are numbered under individual departments and programs. Students and/or faculty who wish to negotiate placements independently with community organizations must initiate their negotiations through the TCCBE. One of the purposes of the TCCBE is to avoid confusion in community organizations as a result of independent inquiries about collaboration from a variety of University members.

The community organizations participating in the program provide placement supervision, facilities, services and materials. The University provides academic supervision, grading and the same research resources that are available for other University courses. In addition to arranging the call for research proposals and overseeing placements, the TCCBE maintains a modest resource centre on community-based initiatives, stores copies of reports from past projects, facilitates communication among placed students, and organizes the evaluation of the project experiences by all parties.

Community research placements may initiate at the beginning of any of the fall, winter or summer sessions and normally extend over one or two sessions. In special cases, such as theses, the placements could be longer. Given the timing of the submission of research proposals, students should check the placement opportunities in their departments/programs or at the TCCBE at the beginning of the fall session.

Participating students will attend regular meetings at the TCCBE during their placement.

Prerequisites. Students undertaking placements must have credit for at least 10 full-course equivalent university courses, with at least a 75% overall average. Screening for relevant skills or knowledge may be undertaken in some cases.

PART-TIME STUDIES IN PETERBOROUGH AND FULL- AND PART-TIME STUDIES IN 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. Criteria for scholarship eligibility are the same for part-time students as for full-time students, and bursaries for part-time students are available.

On campus, services listed under "Student Services and Facilities," such as the Academic Skills Centre, are fully available to part-time students as is use of the athletic facilities, participation in student government and membership in University committees.

Off-campus, a program of full- and part-time courses is offered in both the day and evening at the University Centre at Durham in Oshawa.

Applicants for part-time studies apply directly to Trent either on application forms available in the part-time studies brochures or on-line at the Trent University website www.trentu.ca. Please refer to the Julian Blackburn College section below for details.

Julian Blackburn College (JBC)

Telephone: (705) 748-1229

Fax: (705) 748-1007

E-mail: jbc@trentu.ca

Web: www.trentu.ca/jbc or go to the *Quick Reference* section on the Trent home page and jump to *part-time studies* or *Oshawa*

Oshawa: (905) 721-3003 or (905) 721-3107

Associate Dean and Principal: Elizabeth Popham, Ph.D.

Senior Tutor and Academic Counsellor: Jacqueline Tinson, M.A.

Administrative Assistant: Tui Menzies, M.A.

Administrative Secretary: D. O'Dette

UCD Information Office Co-ordinators: Joan Milovick, B.A.; Sandra Gunn

Julian Blackburn College, a non-residential facility, coordinates the academic programs to accommodate the part-time learner. JBC manages the delivery of courses for part-time and full-time students at the University Centre at Durham (UCD) in Oshawa. JBC also coordinates the degree and certificate programs offered jointly with Sir Sandford Fleming College. (See *Joint Programs with Sir Sandford Fleming College* at the back of this Calendar.)

Academic Advising

Academic advising services are offered, by appointment, through the main JBC office in Peterborough and in the UCD office in Oshawa.

Application for Admission

Students applying for part-time studies should submit an *Application for Admission* form either from the part-time studies brochures or on-line at 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 refer to the *Registration and Fees* section of this Calendar.

For information about Julian Blackburn College prizes, see the *Financial Assistance and Awards* Section of this Calendar.

Trent in Oshawa

Trent University has been offering courses in Oshawa for over 25 years and maintains a permanent office in Oshawa at the University Centre at Durham. 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, Cultural Studies, English Literature, Environmental and Resource Studies, History, Psychology and Sociology. Oshawa students who wish to pursue other disciplines or Honours degrees can supplement their Oshawa courses with courses taught on the main Trent campus in Peterborough. UCD courses in Oshawa are taught at Durham College. These courses are outlined in the Fall / Winter and Summer part-time studies brochures.

Late Afternoon and Evening Courses

To better accommodate part-time students, a number of Trent's regular courses offered in the Fall/Winter session are scheduled either in the late afternoon or evening on the main campus, or in the evening in Oshawa. A full listing of these courses is available in the Fall/Winter Session Brochure for part-time studies, which is published annually in June.

Summer Session

The Summer session is divided into three terms: a 12-week term from early May to late July, in which courses are taught twice a week, an eight-week term from early May to late June, in which courses are taught three times a week, and a six-week term from early July to mid-August, in which courses are taught four times a week. Summer session courses are offered in both Peterborough and Oshawa. Details are available in the Summer Session Brochure for part-time studies, which is published annually in February. The University also offers field schools in Archaeology, Biology and Geography. Details of these courses are available from the departments concerned.

Student Associations

Julian Blackburn College students based in Peterborough and evening students in Oshawa are represented by the Julian Blackburn College Student's Association (JBCSA). Students in day courses in Oshawa are represented by the University Student Affairs division of the Durham College Student Association (DCSA). For further information, contact the JBCSA Executive Director at (705) 748-1380; or the University Student Affairs Vice-President (DCSA) at (905) 721-3083 ext. 230 or dcsaunivaffairs@durhamc.on.ca.

ADMISSIONS AND RESIDENCE

Telephone: (705) 748-1215

E-mail: liaison@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

Degree and Diploma Programs

Trent University offers the following undergraduate degree programs:

- Bachelor of Business Administration (Honours)
- Bachelor of Arts (Honours)
- Bachelor of Science (Honours)
- Bachelor of Arts (General)
- Bachelor of Science (General)

Trent University offers the following diploma programs:

- Canadian Studies Diploma
- Native Management and Economic Development Diploma
- Native Studies Diploma

Admission and re-admission

Trent University welcomes applications from Canadian and international students. Confirmation of an admission offer is required before students may register in courses.

All percentages stated in these admission requirements are based on a pass mark of 50%. For schools and colleges operating on a pass mark other than 50%, the percentage required for admission is adjusted.

The same application procedures, requirements and deadlines apply to applicants for study in Peterborough, Oshawa and other locations.

Application deadlines

Please note that these deadlines also apply to the receipt of all transcripts and other documentation needed to process applications for admission. Early application is always encouraged.

- Full-time admission for September entry: June 15
- Admission to the concurrent education program: February 25
- Part-time admission for September entry: August 15
- Admission for January entry: December 15
- Admission for Summer session May entry: April 15
- Admission for Summer session July entry: June 15

Application

Application for Full-Time Studies

Students who wish to apply for full-time studies at Trent should do so through the Ontario Universities' Application Centre. The appropriate form is available at secondary schools and universities throughout Ontario (including Trent), or may be obtained by contacting the Centre directly:

Ontario Universities' Application Centre
PO Box 1328
Guelph, Ontario
N1H 7P4

Telephone: (519) 823-1940

Facsimile: (519) 823-5232

Web: <http://ouacinfo.ouac.on.ca>

For entry in September 2000, the Ontario Universities' Application Centre fees are:

- \$85 for applications originating in Canada.
- \$95 for applications originating from outside Canada.

Application for Part-Time Studies

Students applying for part-time studies should complete and return an application form supplied by Trent University. These forms are available at the Registrar's Office and the Trent Information Office located in Durham College, Oshawa. To receive an application form by mail contact the Registrar's Office or Julian Blackburn College:

Registrar's Office

Blackburn Hall
Trent University
1600 West Bank Drive
Peterborough, Ontario
K9J 7B8
Telephone: (705) 748-1215
Fax: (705) 748-1629
E-mail: liaison@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 2000 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, Native Management and Economic Development, and Native Studies. Further information regarding application procedures, requirements and deadlines is included in the academic programs section of this Calendar.

Applications are made through the Ontario Universities Applications Centre. The forms may be obtained from the Office of the Registrar.

Application to Joint Programs with Sir Sandford Fleming College

Trent University participates in several joint programs with Sir Sandford Fleming College. Degree programs are currently offered in Geographical Information Systems, Museum Studies and Nursing. A certificate program is available in Child and Family Studies.

Application must be made to both Sir Sandford Fleming College and Trent University. Further information regarding application procedures, requirements and deadlines is included in the Academic Programs section of this Calendar.

Application Processing and Offers of Admission

Ontario secondary school applicants who will complete their OSSD requirements in June and commence university studies in September will have their grades provided to Trent by the Application Centre. By agreement of all Ontario universities, applicants normally will be notified of their admission status beginning March 23 for September 2000 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. All applicants will be sent a supplementary application for admission to the University. The University or the applicant may also request an interview to assist in making an admission decision.

Applicants whose primary language is not English must write a standardized English test (see English Language Requirements) and have the results submitted directly from the testing agency to Trent University.

Documentation

The following documents will be required for the processing of applications for admission:

- An official copy of the appropriate secondary school transcript.
- Official transcripts from all post-secondary institutions attended, whether or not the work was completed.
- Official reports of any standard tests written (e.g., TOEFL, CAEL, MELAB, AP, SAT).

All documents must be official; in those instances where official documents in English are not available, certified translations will be required and should accompany the official document. Documents submitted with an application become the property of the University and will not be returned.

English Language Requirements

English is the normal language of instruction and communication at Trent University. Therefore, an applicant whose primary language is not English, or whose previous education has been conducted in another language, must demonstrate a command of English sufficient to meet the demands of classroom instruction, written assignments, and participation in tutorials and discussions.

The following factors will be taken into account in assessing an applicant's facility in the English language:

- The primary language of the applicant ordinarily spoken in the home and in the workplace.
- The duration of residency in an environment in which English is the predominant language.
- The duration of study and the language of instruction in secondary and post-secondary educational institutions.
- The results obtained in any academic secondary and/or post-secondary courses in which a high standard of English is required.
- The results of English language proficiency tests.

Applicants who are determined by the University to have insufficient experience or skills in written and spoken English will be required to achieve a satisfactory score from one of the following English language testing services:

- TOEFL (Test of English as a Foreign Language). The minimum acceptable score for regular admission is 550/215 (but see gradual admission below).
- CAEL (Carleton English Language Test). The minimum acceptable score is 60, with at least 60 in Writing Proficiency (but see gradual admission below).
- MELAB (Michigan English Language Assessment Battery). The minimum acceptable score is 85 (but see gradual admission below).
- IELTS (International English Language Testing Services). The minimum acceptable score is 6.5 (but see gradual admission below).
- Applicants who have results from recognized Canadian university English language testing services may submit their results for consideration.

Applicants who consider English to be their primary language may request an exemption from writing the aforementioned English language tests. Requests, accompanied by supporting evidence, must be in writing and should be made early to the Director of Admissions.

Applicants with TOEFL (or equivalent) scores of 500 to 550 are invited to apply for **gradual admission** through the English as a Second Language Program offered by the Academic Skills Centre. Inquiries can be made through the Academic Skills Centre (e-mail: acdskills@trentu.ca) or the Trent International Program (e-mail: tip@trentu.ca).

Admission requirements

The admission requirements have been approved by University Senate. Authority for interpretation of the regulations rests with the Senate Committee on Admissions and Scholarships. The University Senate has the right to accept or reject any applicant.

The minimum admission requirements outlined are for general admission to the Faculty of Arts and Science at the University. Some programs have additional assessment criteria.

Completion of the minimum requirements does not guarantee admission to any course, program or department at the University. Enrolment is limited and the University will select the most qualified candidates for admission. Applicants are advised they will normally require a higher academic average than the published minimum.

Because of course enrolment restrictions and scheduling issues, admission to the Arts and Science program does not guarantee access to specific courses or major areas of study. The University reserves the right to offer part-time admission to applicants for full-time studies who are not among those selected for full-time admission. All enrolment limits are subject to revision.

Applicants who do not meet the published requirements for admission, but who are able to provide evidence that they stand a good chance of success at university, are encouraged to provide this information using the Supplementary Application for Admission.

Canadian High School Admission Requirements

Trent guarantees admission with a 70 % average and scholarship awards with an 80 % average.

	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. Four different subject areas at the 30 or 31 level must be represented. A minimum overall average of 60 % on best five academic credits is required.	English 12 and at least three additional grade 12 courses. Four different subject areas at the grade 12 level must be represented. A minimum overall average of 60 % on best four examinable grade 12 credits is required.	English 40G and 40S and at least four additional level 40 courses including three at the 40S level. Four different subjects at level 40 must be represented. A minimum overall average of 60 % on best five 40 level courses is required.	English 121 or 122 (or French 121 or 122) and at least four additional academic courses, four of which are from different subject areas. A minimum overall average of 60 % in the best five academic (college preparatory) credits is required.	Language 3101 and either English 3101 or English 3202. A total of at least 10 credits with four different subject areas must be represented. A minimum overall average of 60 % on the best 10 academic credits is required.
Administrative Studies	Math 30 or 31 or Pure Math 30	Math 12	Math 40G	Math 121 or 122	Math 3201
Biochemistry*	Biology 30 and Chemistry 30	Biology 12 and Chemistry 12	Biology 40S and Chemistry 40S	Biology 121 or 122, Chemistry 121 or 122	Biology 3201 and Chemistry 3202
Biology*	Biology 30	Biology 12	Biology 40S	Biology 121	Biology 3201
Chemical Physics*	Chemistry 30 and Physics 30	Chemistry 12 and Physics 12	Chemistry 40S and Physics 40S	Chemistry 121 or 122, and Physics 121 or 122	Chemistry 3202 and Physics 3204
Chemistry*	Chemistry 30	Chemistry 12	Chemistry 40S	Chemistry 121 or 122	Chemistry 3202
Computing in Physics*	Math 30, Pure Math 30 or Math 31	Math 12	Math 40A or Math 40S	Math 120	Math 3201 or Math 3203
Education	Deadline for application, including an experience profile detailing the applicant's teaching related experience, is February 25, 2000. A minimum 75 % average in courses considered for admission is required. Please refer to Education Program description for specific teachable subject requirements.				
Environmental Chemistry*	Chemistry 30	Chemistry 12	Chemistry 40	Chemistry 121 or 122	Chemistry 3202
Mathematics and Physics*	Math 30, Pure Math 30 or Math 31	Math 12	Math 40A or Math 40S	Math 120	Math 3201 or Math 3203

B.Sc. option:

Anthropology, Computer Studies, Economics, Environmental Resource Studies, Geography, Psychology

Students choosing to do the Bachelor of Science option should note that they must complete a university level math and 14 science based courses in order to graduate.

Those completing the Bachelor of Arts program must meet general admission requirements.

* Students pursuing a Bachelor of Science must complete a university level math course

Nova Scotia	Ontario	Prince Edward Island	Quebec (CEGEP)	Saskatchewan
English 12 AC or English 12AD and at least four additional 12AC or 12AD courses, four of which are from different subject areas. A minimum overall average of 60% on the best five 12 AC or 12 AD courses is required.	OAC English and five additional OACs. A minimum overall average of 60% on the best six OACs is required.	English 621 or English 611 and at least four additional 600 level academic and/or advanced academic subjects. Four different subject areas must be represented. A minimum overall average of 60% on the best five academic 600 level courses is required.	Completion of at least 12 academic courses, four of which are from different subject areas. A minimum average of 65% is required. Please refer to calendar for transfer credit information.	English A30 and B30, or ELA A30 and ELA B30 and at least 4 additional level 30 courses. Four different subject areas at level 30 must be represented. A minimum overall average of 60% on the best five academic 30 level courses is required.
Math 12PC or Math 12AD	Grade 12 Advanced Math	Math 611 or 621	Two of Math 101, 103 and 105	Mathematics B30
Biology 12AC or 12AD and Chemistry 12AD or AC	OAC Biology and Chemistry	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 AC	OAC Biology	Biology 611 or 621	Biology 301 and 401	Biology 30
Chemistry 12AC or AD Physics 12 AC or AD	OAC Chemistry and Physics	Chemistry 611 or 621 and Physics 611 or 621	Chem 101 and 201 and Physics 101 and 201	Chemistry 30 and Physics 30
Chemistry 12 AC or AD	OAC Chemistry	Chemistry 611 or 621	Chemistry 101 and 201	Chemistry 30
Math 12PC or 12AD	OAC Calculus or Algebra	Math 611 or 621	Math, 2 courses	Calculus 30
Chemistry 12AD or AC	OAC Chemistry	Chemistry 611 or 621	Chemistry 101 and 201	Chemistry 30
Math 12PC or AD	OAC Calculus (Math) Algebra for Physics (either req. for Physics)	Math 611 or 621	Math, 2 courses	Calculus 30

Concurrent Trent/OAC Course Registration

OAC students in their final year of secondary school who have high marks may apply to complete course work at Trent concurrent with their completion of OAC 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 Director of Admissions in advance and should apply directly to the University, using the Application for Admission to Part-Time Studies.

Ontario Colleges of Applied Arts and Technology (CAAT)

Students attending a College of Applied Arts and Technology (CAAT) will be considered for admission upon completion of at least one term of full-time study in an acceptable diploma program with an overall average of 65% (2.5 gpa) or better. Enrolment is limited and the University will select the most qualified candidates for admission. Applicants are advised they will normally require a higher academic average than the published minimum.

Transfer credit to a maximum of 10 credits (equivalent to 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.

Advanced Placement (AP) Program

Advanced standing or transfer credit will be granted to students who complete certain Advanced Placement Programs with examination grades of 3 or better. Courses considered for transfer credit and the grades required are listed at the end of the *Admissions* section of this Calendar. As some courses are under review, the most current equivalency table can be found at www.trentu.ca/calendar/admissions.html.

International Baccalaureate (IB) program

All applicants who have completed the International Baccalaureate Diploma may be admitted subject to an acceptable overall score. Advanced standing and transfer credit will be granted for higher level subjects passed with a grade of 4 or higher. The maximum credit that will be awarded from an IB Diploma is 5 credits (one full year of study). A list of the courses which will receive transfer credit and the grades required is available from the office of the registrar.

Applicants from Outside Canada (International Students)

Trent University welcomes qualified students from outside Canada. Trent University's International Program offers exciting opportunities for students from many countries to live and study together in an international community. Further information can be obtained by contacting the International Program Office at (705) 748-1314, or referring to the International educational opportunities section of the Calendar.

Admission information can be obtained by writing to the office of the registrar.

United States Secondary School

- Applicants from an accredited U.S. secondary school are required to successfully complete the requirements for secondary school graduation in an academic program. At least four different subject areas at the matriculation level must be represented.
- A minimum overall average of B (normally 70% or better) in a recognized academic grade 12 program is required. Applicants will also normally be asked to provide SAT or ACT scores for consideration. Advanced academic courses (e.g., International Baccalaureate, Advanced Placement) will be taken into consideration.

General Certificate of Education

- Applicants presenting the General Certificate of Education (or equivalent) will be required to present a minimum of passes in at least five subjects, two at the advanced level with grades of C or better or passing grades in four subjects, three at the advanced level with grades of C or better. Please note that two advanced supplementary courses may be substituted for one advanced level course.
- Advanced level courses with grades of C or better will be considered for transfer credit.

Other Countries

For information regarding admission requirements for students from other countries, contact the office of the Registrar.

Canadian Community Colleges, Institutes of Technology and Accredited Bible Colleges

Students applying for admission to the Faculty of Arts and Science from a community college situated in Canada will be considered for admission following at least one semester of study with a 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 2 year CAAT diploma may expect to receive 3 to 5 credits*. Students with a 3 year CAAT diploma may expect to receive 5 to 8 credits*.

* depending on course content and marks

Admission from Another University

Students applying for admission to the Faculty of Arts and Science from an accredited university will be considered for admission following at least one semester of study with a 65 % average (2.5 gpa). Admission consideration is based on a student's overall academic background including secondary school results. Enrolment is limited and the University will select the most qualified candidates for admission. Applicants are advised they will normally require a higher academic average than the published minimum.

In exceptional circumstances, students with high academic standing at another university, applying for entrance to the fourth quarter of an Honours degree, may be granted a maximum of 15 credits.

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). The equivalent of 10 credits may be transferred toward a second degree.

Applicants who are 21 years or Older (i.e. Mature Applicants)

Applicants who are 21 years of age at the time classes commence and not eligible for admission consideration under the other published admission requirements may apply as mature applicants. Applicants are required to provide a letter and resume outlining academic qualifications, experience, reasons for wanting to study at Trent and any further evidence in support of their likely academic success at university. Applicants may be asked to provide further information and/or make themselves available for an admission interview. Mature student applicants are normally considered for admission to the part-time studies program. In exceptional cases, mature candidates may be considered for admission to the full-time program.

Special Entry

Applicants who do not meet the University's published admission requirements, who nevertheless can produce significant evidence of a likelihood of success at university are invited to apply for special entry. All applicants for special entry will be required to provide a letter outlining academic qualifications, experience, and evidence in support of their likely success at university. Normally, applicants for special entry will be required to submit letters of reference and will be expected to make themselves available for an admission interview. Individuals interested in applying for special entry are advised to contact Admissions in advance of making application.

Special Students and Letters of Permission

Applicants who wish to enrol 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. Those applying on a Letter of Permission must also submit an approved Letter of Permission from their home institution. Special Students are not evaluated for transfer credit.

General Policy on the Transfer of Course Credits from Other Ontario Universities

Trent University subscribes to the following general policy on the transfer of course credits, as adopted by the Council of Ontario Universities:

Acceptance of transfer credits from accredited universities shall be based on the recognition that, while learning experiences may differ in a variety of ways, their substance may be essentially equivalent in terms of their content and rigour. Insofar as possible, acceptance of transfer should allow for the maximum recognition of previous learning experience in university-level courses. Subject to degree, grade and program requirements, any course offered for credit by one university shall be accepted for credit by another Ontario university when there is an essential equivalency in course content.

Notes on Transfer Credit and Advanced Standing

Transfer credit is designated in three different ways:

1. Assigned credit is used when there is a Trent University equivalent.
2. Unassigned credit in a subject area is used for courses without Trent University equivalent, but which are acceptable to a department as fulfilling subject requirements toward a degree in that department. Individual departments may restrict the amount of unassigned credit that may be counted toward a degree in that department.
3. General elective credit is used for courses which are judged to be transferable but do not fulfil specific departmental requirements. General elective credits are expressed in terms of arts elective or science elective courses.

Advanced Standing is placement to a certain level in a subject area granted to students on admission. The department concerned examines the applicant's previous work, or asks him/her to take a placement test, and then places the applicant at a certain level in the sequence of courses in the department. Prerequisite status in a department means that the Trent prerequisite for a course will be waived to enable the student to go on to more advanced work in that discipline.

For information on transfer credit for General Certificate of Education "A" levels and International Baccalaureate Higher Levels, please see the Admission requirements section. Advanced placements course credits are listed on page 26.

Applicants for Re-admission

Students who have studied at Trent but have not completed a course at Trent during the previous 12-month period must apply for re-admission. The deadlines for submitting an application for re-admission are the same as those for admission.

The minimum requirements for re-admission to full-time studies include a current academic status of 'eligible to proceed' and a cumulative average of 65% or higher over three or more completed credits. Applicants who do not meet these requirements will be considered for re-admission to part-time studies. Applicants whose previous academic standing is probation may be limited to one course.

Applicants who have completed fewer than three full courses 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 been rusticated or debarred, are required to provide a letter with their application indicating the grounds on which re-admission is requested. In some instances, the Committee on Admissions and Scholarships may require the applicant to be present for an interview.

Students who have graduated with a General (three-year) degree and wish to pursue an Honours degree must apply for re-admission to the University. Enrolment limits may determine the number of available spaces. Students who are re-admitted and meet the requirements for continuation in an Honours program will be eligible to enter the fourth quarter to pursue a single- or joint-major program provided at least one of the majors for their Honours program is either the same as the single-major or one of the joint-majors from the General degree.

Students who have graduated with a General (three-year) degree and are readmitted

to pursue a General or Honours degree in a single- or joint-major which does not incorporate the single, or at least one of the joint-majors from the previous degree, will be deemed to be pursuing a second undergraduate degree and should refer to 'Second Degree' in the Admissions section of the Calendar.

Possession of the minimum requirements does not guarantee re-admission. The 2000 fee for application for re-admission is \$25 and is payable directly to Trent University.

Application for a Second Trent Degree

Students who hold a Trent degree wishing to pursue a second B.A. or B.Sc. must formally apply for re-admission to the second degree program.

The minimum requirements for admission to a second Trent degree include successful completion of the first degree with 65 % or better. As enrolment may be limited, applicants are advised they may require a higher academic average in order to be admitted.

Normally, the equivalent of 10 credits (two years) may be transferred for credit towards a second Trent degree.

Protection of Privacy

Trent University receives and maintains information used for the purposes of admission, registration, and other fundamental activities related to being a member of the Trent University community and to attending a public post-secondary institution in the Province of Ontario. The application information provided by the applicant or student and any other information placed into the student file will be protected and used in compliance with Trent University's *Policy on Privacy Protection and Freedom of Information*.

Retention of Documents

The documents which support an application for admission will be retained for 12 months following the session to which application was made. Then, application forms, transcripts, and other materials related to an application will be destroyed.

The University's Right to Deny Admission

The University reserves the right to deny admission to any candidate. The University also reserves the right to refuse re-admission to candidates who have not achieved an acceptable academic standing as determined annually by the Committee on Admissions and Scholarships.

Advanced Placement Courses

AP Course Name	Minimum Grade	Trent Equivalency	Credit Value
Art History*	3	general credit (year1)	1.0
Art Studio (Drawing)		general credit (year1)	1.0
Art Studio (General)		general credit (year1)	1.0
Biology	3	general credit (year 1)	1.0
	4	<i>Biology 101</i>	1.0
Calculus AB	3	general credit (year 1)	1.0
Calculus BC	3	<i>Mathematics 110</i>	1.0
Chemistry	3	general credit (year 1)	1.0
	4	<i>Chemistry 100</i>	1.0
Comparative Gov. & Politics	3	Political Studies Year 1 unassigned	0.5
Computer Science A	3	general credit (year 1)	0.5
	4	<i>Computer Science 102H</i>	0.5
Computer Science AB	3	general credit (year 1)	1.0
	4	<i>Computer Science 102H & 202H</i>	1.0
Macroeconomics	3	general credit (year 1)	0.5
	4	<i>Economics 102H</i>	0.5
Microeconomics	3	general credit (year 1)	0.5
	4	<i>Economics 101H</i>	0.5
English Language*	3	general credit (year 1)	1.0
English Literature*	3	general credit (year 1)	1.0
French Language	3	individual assessment	1.0
French Literature	3	individual assessment	1.0
German	3	<i>German 105</i>	1.0
History – American*	3	general credit (year 1)	1.0
History – Europe	3	general credit (year 1)	1.0
	5	<i>History 120</i>	1.0
Latin	3	<i>Latin 100</i>	1.0
Music Literature	3	general credit (year 1)	1.0
Music Theory	3	general credit (year 1)	1.0
Physics B*	3	general credit (year 1)	1.0
Physics C – Electricity*	3	general credit (year 1)	0.5
Physics C – Mechanics*	3	general credit (year 1)	0.5
Psychology	3	general credit (year 1)	0.5
Spanish Language	3	individual assessment	1.0
Spanish Literature	3	individual assessment	1.0
U.S. Government	3	Political Studies year 1 unassigned	0.5

Notes and provisos

1. * indicates that the course is presently under review for possible assigned course equivalency.
2. “individual assessment” – students will receive appropriate courses equivalency following a placement interview with the department Chair.
3. 1.0 credit equals one full-year course. 0.5 credit equals one session (semester) course.

Visit Trent's Website for updates of AP course equivalencies: www.trentu.ca.

RESIDENCE

A key aspect of Trent's organizational structure is the residential college system, and full-time students are normally affiliated with one of the five residential colleges, whether or not they choose to live in residence. Much more than just residences, the Colleges are also centres 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, dances and pub nights. Each College has its own student government.

New students who apply for full-time study at Trent are sent a *Residence and College Application* form, which they are asked to complete and return to the Office of Student Affairs as soon as possible. The form allows students to request affiliation with the College of their choice, and offers choices as to the type of residence room the students would prefer (e.g. single, double). Although they cannot be guaranteed, students' requests are met wherever possible. Prompt submission of both the residence application and the residence deposit of \$250 is a factor in determining college affiliation and residence assignment.

Each College has created prizes to honour academic excellence and contributions to the life of the College among its affiliated students. These prizes are listed, by College, in the *Awards* section of this Calendar.

General inquiries concerning cost, application, process, room assignment, etc., may be directed to the Office of Student Affairs (748-1104).

Catharine Parr Traill College

Telephone: (705) 748-1736

Fax: (705) 748-1721

E-mail: traill@trentu.ca

Web: www.trentu.ca/colleges/traill.html

Principal:

To be named

Senior Tutor:

Christopher W. Tindale, M.A., Ph.D.

Senior Dons:

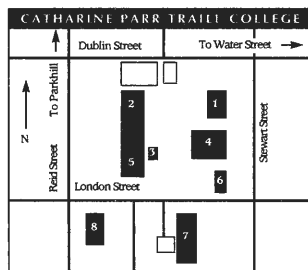
To be named

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.

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, several apartments for faculty and staff who live in the college as residential dons, and a lodge for the College Principal. Teaching offices, seminar rooms, a lecture hall and the Academic Skills Centre are also housed in the various college buildings. Only Kerr House is devoted solely to academic space. It houses the college library, several study rooms including the Alan Wilson Reading Room for Canadian Studies, and a well-equipped microcomputer lab. The excellent facilities and quiet atmosphere make Kerr House a comfortable working environment for many resident and non-resident students.

In addition to being the base for the academic departments of English, Ancient History and Classical Studies, Canadian Studies and Philosophy,



- | | |
|--------------------------------|------------------|
| 1 Kerr House | 7 Bradburn House |
| 2 Wallis Hall | 8 Langton House |
| 3 Lecture Hall | |
| 4 Scott House - College Office | |
| 5 Crawford House | |
| 6 Stewart House | |

Trail has faculty members from most disciplines in the arts and sciences. It is thus an active centre for teaching and learning, not only for resident students, but also for Trent'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 Trail College as it is home to students from over 30 different countries.

All Trail students are invited to participate in a variety of activities sponsored by the College, from book clubs and trips to Stratford, to coffee house performances. An active Mentor Program connects students with established volunteers from the academic and local community. Study sessions for specific academic areas are also organized through this group. The intellectual life of the college is supplemented as well by a thriving visitors' program organized by students and faculty, which gives members of the college the opportunity to meet informally with writers, artists, professionals, politicians, musicians and scholars. Recent guests have included *Toronto Star* columnist Linwood Barclay, Canadian writers Barbara Gowdy and Ernest Hillen, international development economist Dr. Amiya Kumar Bagchi, and Trail'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 has also permitted Trail 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 Kwartha World Issues Centre and Amnesty International.

Active, responsible student involvement has always been a feature of the College's life. Trail 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 plays an important part in organizing academic and social activities for residents and non-residents alike. Facilities at their disposal include the college dining room (which is also used for movies, dances or concerts), The Trend (the student-run snack bar and pub) and various common rooms and lounges.

Champlain College

Telephone: (705) 748-1237

Fax: (705) 748-1581

E-mail: champlain@trentu.ca

Web: www.trentu.ca/colleges/champlain.html

Master:

Stephen W. Brown, M.A., Ph.D., F.S.A. (SCOT.)

Distinguished Teaching Fellow:

Iswar C. Chakravarty, B.Sc., M.Sc., Ph.D.

Senior Tutor:

T. Phillips, M.A., Ph.D.

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, the squash court, music practice room, the Ceilie (a licensed pub and games room run by students that operates daily and hosts regular evening special functions) and Junior Common Room, two private tv rooms 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 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. In co-operation with the faculty College Council, the Cabinet also shares in decisions affecting the administration of the college. Members of Champlain College have enjoyed a long tradition of active participation in University activities: athletic, social and communal. Champlain College is home to the departments of Economics, Comparative Development Studies, Political Studies and the Trent International Program. 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) 748-1322

E-mail: eaton@trentu.ca

Fax: (705) 748-1630

Web: www.trentu.ca/colleges/eaton.html

See map of Symons Campus, page 32.

Principal:

To be named

Senior Tutor:

To be named

Senior Don:

Peter Northrop

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 Ormeau and one of the original sponsors of the University, the college provides facilities designed to encourage academic and social interchange 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, three apartments reserved for upper-year students and 12 double study-bedrooms. On the first floor of the residence wings are the Principal's Lodge and four apartments for faculty and staff of the University who live in the college as residential dons. There are also offices for many of the fellows of Lady Eaton College including the departmental offices of Women's Studies, Mathematics, and Modern Languages (French, Spanish, German), 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 T.V. room, the music practice room, the Junior Common Room, the student-run coffee shop (The Magpie), Crawpadies Pub, and other facilities. The dining hall, a spacious and colourful room with small tables, has a warm and friendly atmosphere. When it is not being used for dining it is used for dances, concerts, and other special events. Extensive grass fields, ideal for a variety of pick-up sports, surround the college. The Athletic Complex and University Library are close by, across the main driveway.

Art exhibitions are occasionally held in the college. They complement the permanent collection of the college, which includes Inuit sculptures, a gift from Lady Eaton.

A very active student government organizes and sponsors many college events in which students and faculty participate. These include intramural sports, in which most students take part, a varied social program including regular events sponsored by Cabinet; Academic Teas; The Drumline, a student publication, and the Lady Eaton College section in the Trent Annual (yearbook).

Language tables organized by the department of Modern Languages and 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. The college has annually 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) 748-1342

Fax: (705) 748-1335

E-mail: otonabee@trentu.ca

Web: www.trentu.ca/colleges/otonabee.html

See map of Symons Campus, page 32.

Head of College:

Ivana Elbl, M.A., Ph.D.

Senior Tutor:

Elwood Jones, M.A., Ph.D.

Senior Don:

to be named

The college's buildings range along a cedar ridge overlooking the river from which the college derives its name. To the east, an uninterrupted vista of rolling rural landscapes; to the west, the Faryon pedestrian bridge, providing easy access to the Bata Library, the Athletic Complex and the other Symons Campus colleges.

Eight "houses" plus four resident dons' apartments and the residence of the Head of College, all of them connected by an interior walkway called "the Street," make up Otonabee's residence. Except for one women-only house, the residence is co-educational. Each house contains single and double study-bedrooms, laundry facilities, a kitchenette and a commons area. Adjacent to the residence is the College Office where the College Head, College Secretary and Senior Tutor have their offices. Past "the Link," a set of faculty offices, are the mailboxes, College Porter's office, the main dining hall looking to the north and east of the grounds, and the Private Dining Room/Senior Common Room for smaller gatherings.

The academic wing of the college, directly connected to the Science Complex and the Environmental Sciences Centre, houses laboratories for Anthropology and Psychology; a Sociology resource area; the Native Studies lounge; several seminar rooms; teaching offices representing many of the disciplines in arts and sciences; and the Wenjack Theatre, which provides for multimedia presentations for lectures 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 Otonabee College Council, comprising student, staff and faculty representatives, has a student President; the Head of College chairs its Executive Committee. The Council, through its committees, sponsors a variety of events for its non-resident and resident members: visiting authors, artists, musicians, scientists; annual interhouse debating for the George Bernard Shaw award; college dinners and dances, a College Winter Weekend; the inter-house Olympics, and intramural co-educational competition in such sports as soccer, softball, volleyball and hockey. Members of the college also participate in the wider social, cultural and athletic activities of the University and the city of Peterborough, including various forms of community service.

Peter Robinson College

Telephone: (705) 748-1743

Fax: (705) 748-1795

E-mail: robinson@trentu.ca

Web: www.trentu.ca/colleges/robinson.html

Master:

George Nader, B.A., Ph.D.

Senior Tutor:

Molly Blyth, B.A., M.A.

Senior Don:

to be named

Honorary Director of Music:

P. MacKinnon

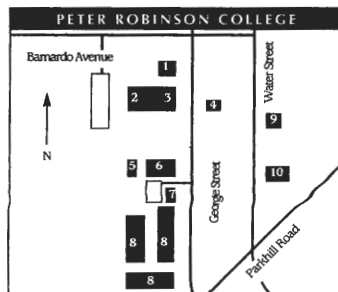
Peter Robinson College, named after one of the founders of Peterborough, was the first college to open in 1964 and the first to become coeducational in 1967. One of the two city colleges, it is located in converted heritage houses and new buildings which incorporate residence and academic areas. Sadleir House, the focus of college life, is a unique Peterborough historic home which has been redesigned to integrate the features of the original architecture with the newer additions. The college is located in Peterborough's north end and its size (Trent's smallest college) makes Peter Robinson particularly appealing to those students who are interested in an intimate university

milieu which is not isolated from the city community.

Besides providing a strong base for traditional academic disciplines such as History, the college encourages inter-disciplinary co-operation and is the home base for the Cultural Studies Program at the undergraduate level and two M.A. programs: the Canadian Studies – Native Studies Program and the *Methodologies Program for the Study of Western History and Culture*. The college strongly supports the arts in all its forms, and has an active program of visiting scholars, artists, broadcasters, musicians and cultural theorists. (Trent Radio is at the nearest corner.) The dining hall in Sadleir House, originally the hayloft for the stables, is the scene of a variety of cultural events.

Peter Robinson has always emphasized the need for student involvement in wider social issues in the community and abroad. The college provides a supportive environment for activities concerned with human rights, international, aboriginal and environmental issues. The offices of the Ontario Public Interest Research Group, the Trent Institute for the Study of Popular Culture and the Vanier Professor Emeritus are located at the college.

Peter Robinson is the only college that has both conventional residential accommodation and single rooms in townhouses where each student has a study-bedroom and shares kitchen and living and dining room facilities with three or five others. College facilities include a 6,000-volume library, five pianos, a computer room, squash court and a croquet lawn.



- | | |
|------------------|-------------------|
| 1 North House | 6 Reade House |
| 2 Lecture Hall | 7 The Cottage |
| 3 Sadleir House | 8 Townhouses |
| 4 College Office | 9 Abbott House |
| 5 East Lodge | 10 Stratton House |
| 5 Jolly Hangman | |

Julian Blackburn College (JBC)

Telephone: (705) 748-1229

E-mail: jbc@trentu.ca

Fax: (705) 748-1007

Web: www.trentu.ca/jbc

See Blackburn Hall on map of Symons Campus, page 32.

Oshawa: (905) 721-3003 or (905) 721-3107

Associate Dean and Principal:

Elizabeth Popham, Ph.D.

Senior Tutor and Academic Counsellor:

Jacqueline Tinson, M.A.

UCD Information Office Co-ordinators:

Joan Milovick, B.A.; Sandra Gunn

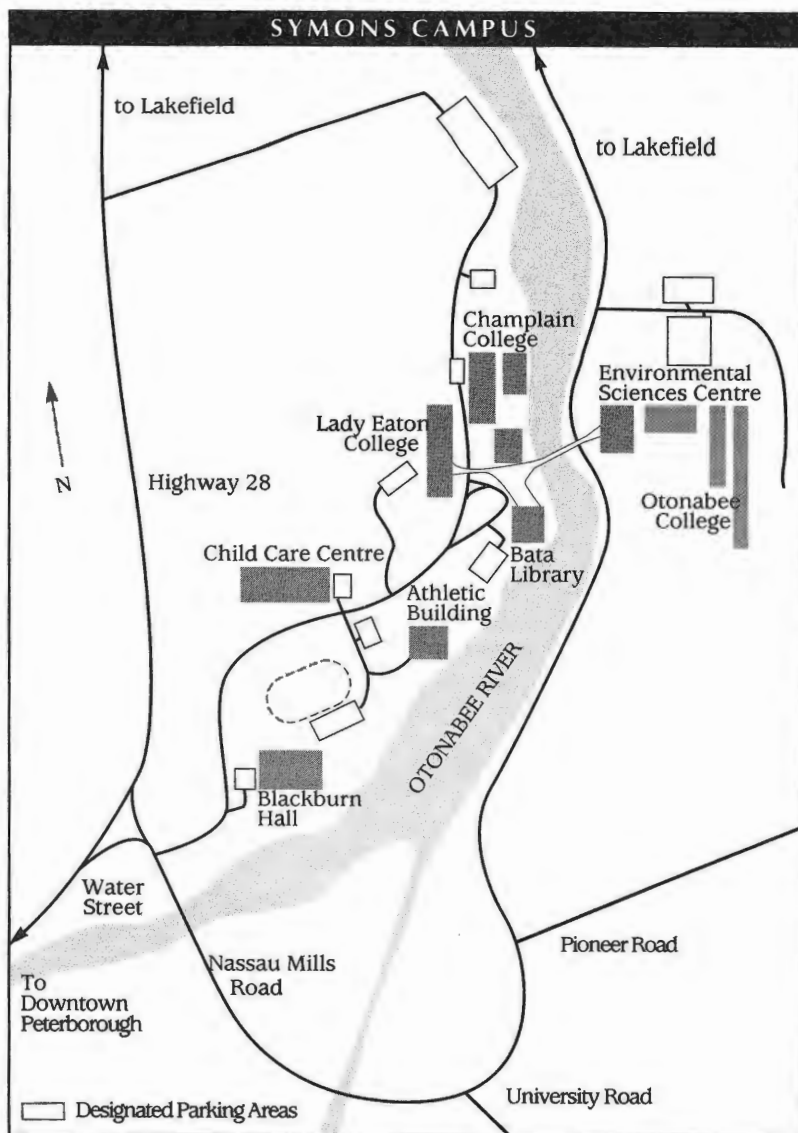
Administrative Assistant:

Tui Menzies, M.A.

Administrative Secretary:

D. O'Dette

Trent's only non-residential College, Julian Blackburn College (JBC) coordinates the Summer session programs to accommodate the part-time learner, and manages the delivery of courses for part-time and full-time students in Oshawa. JBC provides a range of services to its affiliated students. For more details, see the *Part-time study opportunities* section of this Calendar.



REGISTRATION AND FEES

Definition of Full-Time and Part-Time Course Load

For purposes of defining a full course load in the Fall/Winter session, a half-course is equivalent to a full-course for the Fall session or Winter session; a half-course taught from September to April is equivalent to a half-course for each of the Fall and Winter sessions. See page 76 for more information on course credits.

The maximum number of full-course equivalents a full-time student may take in the Fall/Winter session without overload approval is five. The maximum number of full-course equivalents a part-time student may take in the Fall/Winter session is three. The maximum load a part-time student may take in any session in the Fall/Winter session is three courses.

Specific regulations related to overload for students taking courses in the Spring Program are specified in the Spring program brochure.

Fall/Winter session registration

New Students to University Studies

New students will register in person during Introductory Seminar Week, the week prior to the beginning of classes in September. This week is designed to provide students with an introduction to student life at Trent, and an opportunity to explore and gain a clear understanding of their academic options. New students arrive at their affiliated Colleges on the first Monday of September (Labour Day), and on Tuesday meet with their academic advisers to discuss program options and registration procedures. From Tuesday through Thursday students may attend lectures and information sessions presented by the academic departments 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, and, on Friday, they officially register at the Athletic Complex gymnasium. A \$100 late fee is applied to students' accounts for late registration.

Transfer and Re-admit Students

Students who have accepted their offer of admission will receive registration information, including a registration form, on which they will be asked to list preferred courses. The deadline for submission of this form to the Registrar's Office is July 31, but students are encouraged to return it as soon as possible.

First session fees must be paid, or appropriate arrangements made, by the September deadline (under review).

Students arrive at their affiliated College on the Sunday before the beginning of classes. They will receive a registration status form from their academic advisers on the first day of classes. Courses already approved will be preprinted on the form, and students are required to finalize their course selection and submit the completed registration form by the Friday of the first week of classes. A \$100 late fee is applied to student accounts for late registration.

Transfer students are invited to attend Introductory Seminar Week.

NEW PART-TIME STUDENTS

New students to university study, as well as transfer and readmit students, register on the part-time registration form, which is available from either the Peterborough or Durham office of Julian Blackburn College, as well as from the Registrar's office and in the part-time studies Fall/Winter brochure. These forms can be submitted at the time of application.

Registration confirmations are sent to students after their course selections have been reviewed by the appropriate academic departments. Students who have completed a registration form and have been admitted by July 31.

Students must pick up their registration status forms by the first Tuesday in September. Courses approved by the appropriate academic department will be listed on the forms, and students are required to submit completed forms by the Friday of the first week of classes. A \$50 late fee will be applied to student accounts for late registration.

CONTINUING STUDENTS (FULL-TIME AND PART-TIME)

Continuing students are required to register in April for the following Fall/Winter session. Appropriate departmental authorization for courses must be obtained (where required), and a completed registration form must be submitted to the Registrar's Office by the required submission date. Students also must register in all half-courses, whether offered in the Fall or Winter sessions, by this date. The minimum late fee for submitting a registration form after the submission date is \$50 for part-time students and \$100 for full-time students.

A *Registration Status/Change* form will be mailed to students in June. Course changes may be made by submitting the *Registration Status/Change* form to the Registrar's Office by the end of July. Changes may be made in September by completing an official *Course Change* form.

Official registration is complete when the student has submitted a registration form 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 Registrar's Office for details on how to proceed with registration. Payment of fees or deposits related to tuition or residence does not excuse a student from compliance with deadlines or other procedures related to registration.

Refer to the *Registration Notes for Continuing Students and Academic Advisers* and also to the Fees section of the Calendar under "Ineligibility to Return for Financial Reasons" for further details about the registration process for continuing students.

Summer session registration

The Summer session is divided into three terms: a 12-week term from early May to late July, in which courses are taught twice a week, an eight-week term from early May to late June, in which courses are taught three times a week, and a six week term from early July to mid-August, in which courses are taught four times a week. Summer session courses are offered in both Peterborough and Oshawa, and details are available in the Part-time Studies Summer Session Brochure, which is published annually in February.

The University also offers field schools in archaeology and field courses in Biology and Geography. Details of these courses are available from the departments concerned. Registration forms are available from the Julian Blackburn College Office or the Registrar's Office, both in Blackburn Hall on the Symons Campus, or the Trent Information Office in Oshawa, or can be found in the part-time studies session brochure. Please refer to the *University Diary* for application and registration deadlines.

CHANGING FROM PART-TIME TO FULL-TIME STUDIES

Continuing part-time students who wish to transfer to full-time status for the next Fall/Winter session must apply on the *Registration* form by the required submission date.

The Committee on Admissions and Scholarships considers all applications following review of final marks. Notifications are mailed to students with their *Registration Status/Change* form 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 full-course equivalents completed for credit. 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 full courses in the Fall/Winter session, or enrolment in more than five full courses during the Fall session or the Winter session. For the purpose of determining course load, a half-course which begins in September and ends in April is considered to be a half-course within each session.

Students require approval for course overload. Full-time students with at least a 70 % average over a minimum of the last five full course equivalents in the most recent Fall/Winter session will require the signature of their Senior Tutor on the *Course Drop/Add and Change of Major* form. Students whose current average is less than 70 % must petition the Committee on Undergraduate Standings and Petitions, through their Senior Tutor, for approval of course overload. Overload approvals cannot be granted at April registration.

Changes, withdrawals, refunds

Once a student has registered in a course, a grade will be assigned for that course unless the student withdraws from the course, in writing, before the deadline for withdrawal. The deadlines for dropping, adding and withdrawal from courses is listed in the University Diary near the front of this Calendar. Students may be de-registered from courses where the prerequisite standing has not been achieved.

Changes

Students wishing to drop or add courses must submit a completed *Course Drop/Add and Change of Major* form to the Registrar's Office before the drop and add deadline. These forms are available at the Registrar's Office and at College Offices. To add a course, the student must obtain the signatures of the course instructors if the course requires authorization.

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 have questions about the procedures and regulatory implications of withdrawal from the University may contact the Registrar's Office.

Students who are affiliated with Julian Blackburn College must notify the Registrar's Office, in writing, of their withdrawal.

Refunds

Please refer to the Fees section of this Calendar 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 and Petitions (CUSP).

Students required to reduce course load to part-time studies

Students who have dropped to a part-time course load, and whose status is probationary at the completion of the Fall/Winter session, will be required to proceed in the part-time studies program.

Letters of permission

Trent students who wish to take courses at other universities for credit in their Trent program must first apply for and be granted a Letter of Permission.

Application for a Letter of Permission

Letters of Permission are granted under the authority of the Committee on Undergraduate Standings and Petitions, and applications are made through the Registrar's Office. The application must show that departmental approvals and equivalency assessments have been obtained for courses within a student's major. (Departmental approval may also be required for courses outside of a student's major.) Calendar course descriptions for all courses being requested must also accompany the application.

For the Fall/Winter session, applications for Letters of Permission must be received no later than August 15. For the Summer session, applications must be received no later than two weeks after Spring Convocation. A week to 10 days must be allowed for processing, and a \$30 fee is charged when the application is submitted to the Registrar's Office. 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 full courses (or equivalent), and students on probation may take only one full course at a time on a Letter of Permission.

No more than five full courses may normally be taken for credit 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 normally exceed 10 full courses. It should also be noted that the last five full course equivalents obtained by a candidate for a degree should be completed at Trent.

Study at foreign universities

Students wishing to take a full year of study at a foreign university must apply through the Trent International Program 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 quarter of an Honours program. For more detailed information about study at foreign universities, see *International educational opportunities*.

FEES AND FINANCIAL INFORMATION

(see *Graduate Studies* section of this Calendar for Graduate fees)

Payment of Undergraduate Fees for the Fall/Winter Session

All fees, including fees for registered courses starting in the second session are due on or before the start of classes. (The due dates are under review for 2000-2001 and will be communicated to students once the dates have been approved.) Students may pay fees in full or in two instalments. A first instalment of approximately 65% before the start of class and the balance of all fees no later than January 15, 2001. If a student decides to pay in two instalments, a \$50 instalment fee will be charged and must be included with the payment of the first instalment. A \$60 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 1, 2000 for full-time students (date under review for OAC and new international students).

Continuing students who have unpaid fees or library fines from a previous academic session are required to include full payment of these items with their fee payment at the beginning of 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, 2001, payment.

Using the University remittance form, payment may be made at most banks/ATMs/financial institution in Canada with cash or cheque. Trent University accepts payment by credit card (Visa, MasterCard, American Express), cheque or money order. Mail to, or pay in person by debit card or cash at: Student Financial Services, Blackburn Hall, Trent University, Peterborough, Ontario K9J 7B8. Cheques or other remittances (please do not mail cash) should be made payable to Trent University. Registration will not be considered complete if the University does not receive fee payment and the Fee Invoice Form by the required University deadlines.

There is a \$30 fee for cheques which are returned by the bank for NSF or other reasons. If a cheque which accompanies the first instalment of fees is returned by the bank the student's official registration is automatically canceled. In order to be eligible to re-register, the invalid cheque must be replaced with a certified cheque, money order or credit card payment immediately.

The University reserves the right to require a student to pay by certified cheque.

Students who receive financial assistance from OSAP, scholarships, bursaries or any other source which is not available by the date fees are due may receive 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 Financial Services in Blackburn Hall prior to 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 \$25.00 fee for a deferment (under review).

The University will not consider registration to be complete until all financial requirements have been met by the student.

Tuition Fees

Students admitted to full-time studies (a course load of 3.5 full courses or more) are required to pay full tuition fees. In 1999-2000 this fee was \$3,874.00.

Students admitted to part-time studies (a course load of 3.0 full courses or less) pay one-fifth of the full-time tuition fee for each full course registered. In 1999-2000 this fee was \$775.00 per full course (equivalent of three credits), \$387.50 per half course.

For certain 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 Students

Full-time 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 1999-2000 these fees were:

Athletics	\$ 110.50
Health Services	\$ 30.00
Transportation	\$ 130.00
College Activities	\$ 180.00
Convocation	\$ 11.25
Introductory Seminar Week	\$ 30.00

Part-time students who are admitted to full-time studies normally pay the ancillary fees for full-time students, even if they remain affiliated with Julian Blackburn College, the University's college for part-time students.

Students taking a full-time course load (i.e. 3.5 courses or more) in Oshawa pay part-time ancillary fees. However, if more than one full course of the total course load is taken in Peterborough, the student is required to pay full-time student ancillary fees. For further information contact the Student Financial Services Office in Financial Services.

Ancillary Fees – Part-time Students

All students admitted to part-time studies will normally be affiliated with Julian Blackburn College, the University's college for part-time students. This includes continuing full-time students who decide to register in part-time studies.

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. Part-time students registered in courses offered outside Peterborough, Oshawa for example, are not required to pay the ancillary fees for athletics and health services. In 1999-2000 these fees were:

Athletics	\$ 31.50 per full course
Health Services	\$ 2.70 per full course
College Activities	\$ 27.80 per full course
Convocation	\$ 2.25 per full course

Part-time students registered in Durham University Centre day courses pay tuition and Durham University Centre Program Fees. In 1999-2000 the Program fees were:

Athletics	\$ 4.00 per full course
Personal counseling	\$ 1.00 per full course
Student Centre	\$ 8.40 per full course
Student Association	\$ 12.00 per full course
College	\$ 27.80 per full course
Convocation	\$ 2.25 per full course
Handbook	\$ 1.00 per full course
Durham University Centre card	\$ 1.00 per full course
Student Health	\$ 30.00 per full course (new in 2000-2001)

If a part-time student wishes to be affiliated with one of the residential colleges for full-time students, **the student will be required to pay all the ancillary, student association and organization fees paid by full-time students.** Part-time students have until September 30 to make this request through the full-time college office. Part-time students who are required to visit the University's main campus three or more times per week on a regular basis are eligible to purchase a bus pass. Student bus passes are issued by the Student Card Operation in the Bata Library once payment has been made at the Student Financial Services Office in Financial Services in Blackburn Hall.

Residence Fees (*under review*)

Full room and board is provided in single and double accommodation in each of the five University's residential colleges for full-time students. In addition, limited townhouse accommodation is available without meals.

In 1999-2000 residence fees were: Single \$3,200.00, Double \$2,200.00.

Continuing full-time students interested in residence are required to submit a residence application form to the Student Affairs Office by March 15. A non-refundable \$250 deposit mailed directly to the Student Affairs Office is due June 1 to confirm acceptance. If the deposit is not received by June 1, the room will be re-assigned.

Full-time applicants to the University must indicate their interest in residence on their college application form which they submit directly to the Office of Student Affairs. To confirm the University's offer of residence, applicants are required to submit a non-refundable \$250 residence deposit with their college application form by July 3 (*under review*). If the deposit is not received by the due date the room will be reassigned.

Meal Plan Fees (*under review – refer to www.trentu.ca/foodservice*)

The University's room and board fees include the cost of a full meal plan for the academic year commencing immediately after introductory seminar week in September.

The colleges also encourage non-resident students to eat their meals in the college dining rooms.

There are two types of meal plans: declining balance and traditional board buffet. In 1999–2000 the plans ranged from \$2,150 to \$3,000. Information on 2000–2001 meal plans will be available by April 2000.

The meal plan has an expiry date. Limited carry-over privileges are permitted for some flex dollar plans.

Non-residential students may purchase debit "flex" cards for meals and snacks at the University. The minimum flex card amount is \$100 and can be added to at any time. All food service locations are flex card friendly. Cards are purchased directly from the Food Services Office located at Lady Eaton College.

Student Association and Organization fees

Student association and organization fees are determined by student referenda which are held under the supervision of the Trent Central Student Association for full-time students and the Julian Blackburn College Students' Association for part-time students.

All full-time and part-time students are required to pay student association and organization fees. These fees are not refundable unless specifically noted. For full-time students these fees in 1999-2000 totaled \$220.16 and included the following:

Trent Central Student Association	\$ 20.96
Trent Central Student Association Club Fund	\$ 4.00
College Cabinet/Council	\$ 12.75
Canadian Federation of Students – Ontario	\$ 5.30
Canadian Federation of Students	\$ 6.40
Arthur	\$ 9.50
Trent Film Society	\$ 3.00
Trent Radio	\$ 15.00
Trent Music Society	\$ 2.50
Theatre Trent	\$ 3.00
Trent International Students Association	\$ 1.50
International Scholarship Fund	\$ 5.00
Emergency First Response Team	\$ 2.00
Sexual Violence Support	\$ 3.00

Women's Centre	\$ 2.25
Trent Annual	\$ 18.00
WUSC	\$ 2.50
Trent Student Health Plan	\$ 79.50
The Commoner	\$ 3.00
OPIRG	\$ 9.00
OXFAM	\$ 3.00
Kawartha World Issues Centre	\$ 4.00
College Student Pubs	\$ 2.00
Trent Nature Areas	\$ 2.00
Trent Students for Literacy	\$ 0.50
Shinerama	\$ 0.50

(The Commoner, OPIRG, OXFAM, Trent Central Student Association [for Student Health Plan], Trent Students for Literacy, Trent Nature Areas and Kawartha World Issues Centre will provide refunds *directly* to students upon request. These organizations set their own deadlines by which refund requests must be made.)

Part-time students pay a Student Association Fee. In 1999-2000, this fee was \$5.50 per full course (\$2.25 per half course).

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 1999-2000 the health insurance fee was \$591 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

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

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 \$163.00 (2000-2001) per full course (subject to change) and pay no compulsory ancillary fees.

Other Fees Additional fees at 1999-2000 levels (subject to change in 2000-2001) (GST will be added where applicable):

Transcripts – per copy	
normal service	\$ 8.00
24 hour service	\$ 25.00
Academic appeals	\$ 25.00
Letter of Permission for courses at other Universities	\$ 30.00
Degree replacement	\$ 40.00
Document lamination (per page)	\$ 2.00
Replacement of tax tuition form:	
current session	\$ 6.00
previous session	\$ 16.50
Late registration fee:	
Full-time students:	
prior to August 15	\$ 100.00
after August 15	\$ 200.00
Part-time students:	
prior to August 15	\$ 50.00
after August 15	\$ 100.00
New/re-admit students:	
after deadline-full-time	\$ 100.00
after deadline-part-time	\$ 50.00
Application to Trent by graduate students	\$ 35.00
Application for re-admission	\$ 25.00
Application for part-time students	\$ 35.00
Verification of registration	\$ 5.00
Assessment letter	\$ 5.00
Processing withdrawal from the University prior to start of classes	\$ 50.00
Late course additions - per course	\$ 25.00
Late convocation application fee	\$ 25.00
Trent International Program: Exchange application	\$ 200.00
Foreign university placement	\$ 110.00
TIP camp activity fee	\$ 75.00
Year Abroad Program Fees:	
Thailand	\$ 2,650.00
Nantes	\$ 950.00
Freiburg	\$ 1,100.00
Mexico	\$ 1,700.00
Ecuador	\$ 2,650.00
Ghana	\$ 2,650.00
Fee payment instalment fee	\$ 50.00
Late second instalment payment	\$ 60.00
Replace bus pass:	
First session	\$ 85.00
Second session	\$ 42.50
Replace student I.D. card	\$ 10.00
Returned cheque fee	\$ 30.00
Parking permits:	
full-time (blue)	\$ 118.50
part-time (blue)	\$ 134.50
part-time (green)	\$ 50.00
Late fine payment	\$ 20.00
Additional permit/replacement	\$ 10.00
Vehicle licence search	\$ 17.00
Fee deferment application	\$ 25.00
Short-term loan application	\$ 10.00
Replacement of residence key	\$ 50.00
Replacement of lock	\$ 200.00
Replacement of mail box key	\$ 25.00
Replacement of library card	\$ 5.00
Residence appliance fee	\$ 20.00
Termination of residence contract	\$ 370.00
Late college transfer application	\$ 100.00
Additional Calendar copies	\$ 5.00
Athletics-locker rental:	
Full-time	\$ 38.89
Part-time	\$ 28.19
Thesis binding fee	\$ 11.90
Microfilming fee	\$ 35.50
Rental of library study carrels	\$ 8.00
Library fines for overdue books and lost material	various

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 Sir Sandford Fleming College

Trent University and Sir Sandford 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 Sir Sandford Fleming College.")

Textbooks

The cost of books and materials varies according to individual course requirements, with those for science courses tending to be more expensive than those for arts courses. Students should be prepared to spend approximately \$130 per course. Both new and used textbooks are available from the Trent University Bookstore. The Bookstore accepts personal cheques, MasterCard and Visa. The Bookstore provides limited refunds of textbook purchases. Students are expected to familiarize themselves with the Bookstore's text book refund policies.

Withdrawal from the University and Refund of Fees

Refunds are provided for all tuition and compulsory ancillary fees except those listed under Student Government and Organization Fees. Most of the other fees listed are not refundable unless specifically indicated otherwise.

Full-time students who wish to withdraw from Trent University must visit their college office to complete an official Withdrawal Form, obtain the signature of the college head and return the student identification card (bus pass and/or meal card). The College will forward the completed Withdrawal Form and student card to the Registrar's Office for the official recording and dating of the withdrawal for academic and refund purposes. The date the form has been signed by the College Official serves as the effective date for calculation by the Finance Office of the proportionate refund of fees. The Finance Office will not process a refund until it has received the student's identification card and Withdrawal Form. Full-time students who withdraw from courses but retain a course load of at least 3.5 courses, are still considered full-time and do not receive a refund for the withdrawn courses.

Part-time students who wish to withdraw are required to notify Registrar's Office in writing. The date the student's notice is received by the Registrar's Office becomes the effective date of course withdrawal and the date used by the Finance Office to calculate the fee refund.

Fee refunds for withdrawals prior to the start of classes are subject to a \$70 processing charge.

A 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 pro-rated refund in tuition fees based on the date a completed Change of Course Registration Form is received by the Registrar's Office. 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 will be assessed a \$50 instalment fee when the first instalment is due. Students who fail to pay the second instalment including all other accounts by January 15, 2001 will be assessed a \$60 late payment fee.

Unpaid accounts of students who are no longer registered with the University will be placed with a collection agency.

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 Registrar's Office will change their academic status to Financially Ineligible to register early. These students will be excluded from Early Registration in April and will be required to apply for re-admission to the University. **Students are still required to complete the academic year, including the writing of any final examination;** however, transcripts or grade reports will not be released until the financial obligations have been fully settled.

Confidentiality of Student Fee Information

All information regarding student fees is treated as confidential and will normally only be released to individual students. In cases where sponsoring government and private agencies and organizations or individuals are paying fees on the student's behalf, the student may wish to waive the right of privacy and allow the University to release information about the status of his/her fees to avoid any interruption in the payment of fees. To ensure that the necessary fee information is available to sponsoring agencies, etc., students must sign the release waiver on the Fee Invoice Form which is to accompany the payment of fees.

Schedule of Undergraduate Fees

To assist students in their financial planning, a fee schedule, based on 1999-2000 rates, is included. The actual fees for the 2000-2001 academic year will not be available until March or April 2000 after they have been approved by the University's Board of Governors.

Full-time Undergraduate Student Fees *(under review)*

(Domestic and International Students)

	<u>Full-time Domestic</u>	<u>Full-time International</u>
Course tuition	\$ 3,874.00	\$ 10,439.00
Ancillary	461.75	461.75
Student levies	220.16	220.16
Foreign Health Insurance Plan (UHIP)	0.00	591.00
Total	\$ 4,555.91*	\$ 11,711.91*
<i>If paid by instalment:</i>		
First instalment	2,871.61*	7,401.61*
Second Instalment	1,734.30	4,360.30

* new students add \$30 for Introductory Seminar Week to total of first instalment.

- International undergraduate students pay an additional \$6,565.00 (1999-2000 rate) in tuition fees. International students also pay \$591 (1999-2000 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 \$30.00 Introductory Seminar Fee with their fee payment (not included in the above). This fee is non-refundable.
- The first instalment includes a \$50 instalment fee.
- Students who do not meet the January 15 second instalment deadline will be charged a \$60.00 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 Fees (under review)
Average Costs 1999 – 2000

	Champlain	Lady Eaton	Otonabee	Peter Robinson	Catharine Parr Trail
Single Room + Meal Plan	\$6,000	\$6,000	\$5,350	\$6,000	\$6,000
Double room + Meal Plan	n/a	\$5,000	\$4,350	\$5,000	\$5,000

If you are paying residence fees by instalment, the first instalment equals 60 % of full college residence fees.

2000 – 2001 Tuition and Ancillary Refund Schedule

Full courses 1999-2000 or full-time Peterborough students

<i>Period start and end date</i>	<i>Tuition & Ancillary</i>	
Sep10 Sep27	\$300 tuition deposit - non-refundable - balance refunded	15 days
Sep28 Nov1	75 % refund of tuition and ancillary	50 days
Nov2 Jan10	40 % refund of tuition and ancillary	120 days
Jan11 Feb15	20 % refund of tuition and ancillary	156 days
after Feb15 - no refund on full courses		

Half courses – Fall (per course billed students)

<i>Period start and end date</i>	<i>Tuition & Ancillary</i>	
Sep10 Sep27	\$100 tuition deposit - non-refundable - balance refunded	15 days
Sep28 Oct15	75 % refund of tuition and ancillary	33 days
Oct16 Nov1	40 % refund of tuition and ancillary	50 days
Nov2 Nov12	20 % refund of tuition and ancillary	61 days
after Nov12 - no refund on Fall half courses		

Half courses – Winter (per course billed students)

<i>Period start and end date</i>	<i>Tuition & Ancillary</i>	
Jan10 Jan24	\$100 tuition deposit - non-refundable - balance refunded	15 days
Jan25 Feb11	75 % refund of tuition and ancillary	33 days
Feb12 Feb28	40 % refund of tuition and ancillary	50 days
Feb29 Mar10	20 % refund of tuition and ancillary	61 days
after Mar10 - no refund on Winter half courses		

- Student Association levies are not refundable after the start of classes
- The above schedule applies only to the tuition and ancillary fees
- The amount of the refund depends on the amount refundable and the amount paid

This refund schedule applies to students paying on a per course basis.

Students paying full-time fees and dropping courses but still carrying a full time load do not receive any refund unless the student changes/drops from full time status to part time status or completely withdraws from the University.

FINANCIAL ASSISTANCE AND AWARDS

(Bursaries, awards, scholarships, medals and prizes)

For students of all ages, financial assistance has become an increasingly important element in their lives at university. Trent has worked hard over the years to build a diversified financial assistance program, and has made it a priority to expand the variety and number of opportunities for students. Beyond the Ontario Student Assistance Plan (OSAP), Trent offers a range of scholarships, bursaries and work study opportunities. Short-term loans are also available.

The University encourages, rewards and honours academic excellence through its program of scholarships, medals and prizes. Students awarded scholarships and prizes will be recognized through a notation on their transcript and publication of their award. The Colleges honour their scholars and prize winners with annual dinners, and a University-wide reception is held each year in recognition of the Trent scholarship holders.

Over the years donations have been received from within the University and the city of Peterborough, from other cities, from corporations and other organizations, from prominent and ordinary citizens and from various levels of government. Such donors continue to provide funding for financial assistance and the recognition of academic excellence. The University is grateful to all those who have contributed and continue to provide support for these programs.

Financial Aid

Telephone: (705) 748-1524

E-mail: financialaid@trentu.ca

Fax: (705) 748-1564

Administrator: Joyce Sutton

Ontario Student Assistance Program (OSAP)

The Province of Ontario and the Government of Canada provide loan assistance to university students through the Ontario Student Assistance Program. To qualify for Canada Student Loans the student and/or parents, guardians or sponsors must be Canadian Citizens or Permanent Residents. To qualify for Ontario Student Loans the student must also meet certain residency criteria.

The purpose of OSAP 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.

OSAP applications are available through high school guidance offices in late Spring. Although, you may apply to more than one school for OSAP funding, our recommendation is to wait until you have accepted admission, and submit your application directly to that school. The Ministry normally does not start processing any OSAP applications until June.

The final date to apply for assistance for the 2000–2001 academic year is January 30, 2001.

The following programs are also funded by the Province of Ontario under the OSAP program.

The Ontario Special Bursary Plan (OSBP)

provides a limited number of bursaries to 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 deadline date for application to this program is the last day of the month in which your program begins.

The Child Care Bursary

is available to married students and sole-support parents with three or more children, who apply and qualify for OSAP assistance. Applications will be mailed directly by the Ministry of Education and Training to all eligible students indicating child care costs on their OSAP application.

The Bursary For Students with Disabilities

is 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, OSBP and Part-Time Canada Student Loans may apply. Trent University also provides bursaries for Ontario residents with disabilities who are not eligible for the previous programs. Students are encouraged to contact the Special Needs Office early to discuss their needs and obtain an application. Details regarding students with special needs can be found under *Student services and facilities*.

The Ontario Work Study Program (OWSP)

is funded by the Province of Ontario and 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 Loans

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 part-time student loan.

Students may obtain applications and information on the OSAP programs through their high school guidance office or the Financial Aid Office, Trent University.

Financial Assistance for Students from Outside Ontario

Students from outside Ontario who require financial assistance to attend university are strongly urged to consult with officials in their home province regarding available provincial loan and bursary assistance.

Students from foreign countries are urged to consult with educational authorities and sponsoring agencies in their own country. Trent International Program (TIP) also provides information regarding financial programs for international students.

The University has limited bursary funds to assist needy students not eligible for government assistance.

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.

Bursaries

TUITION BURSARIES**New Undergraduate and Graduate Students**

To assist new full-time undergraduates cope with increased tuition costs, Trent University awards partial tuition bursaries to financially needy incoming Ontario residents. These bursaries will be awarded in March of each year by the Financial Aid Office. Applications will be mailed to your home address in January.

First year graduate students with proven financial need may apply for partial tuition bursaries. Applications are available through the Research and Graduate Studies Office. Deadline date for submission is February 1.

Returning Undergraduate and Graduate Full-Time Students

Bursaries to assist with partial tuition fees are available to returning Ontario residents. Applications are available at the College Offices the first week of classes. Deadline date for submission is September 30.

New and Returning Part-Time Students

Trent University has also introduced a partial tuition bursary based on the number of registered courses for all part-time students. Applications are available at Julian Blackburn Offices (Peterborough and Oshawa) the first week of classes. Deadline date for submission is September 30.

RESIDENCE BURSARIES

Returning students who have proven financial need and have made contributions to College life/activities are eligible to apply for bursary for the coming year. Available at all College offices in January. Must be an Ontario resident.

IN-COURSE BURSARIES

Bursary funds are intended to assist with directly-related educational costs. Bursaries listed below are usually awarded in second semester based on financial need and satisfactory academic achievement. Applications are available from the Financial Aid Office or the College Offices early in January. The deadline date for submission is January 31.

Ontario Student Opportunity Trust Fund (OSOTF)

In 1996-97 the Province of Ontario established the Ontario Student Opportunity Trust Fund. 50 % of this fund is provided by the Province and 50 % has been raised through fundraising by the University. The trust fund represents an endowment fund. Annual proceeds from investment earnings are available in the form of bursaries to Ontario residents enrolled full-time, part-time or as graduate students, who can prove financial need and whose academic progress is satisfactory. In some instances, academic excellence as well as financial need will be the determining factor.

Students must fall into one of the following categories:

- 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.

William Aitken Memorial Bursary

This bursary was established by the family of William Aitken, the oldest student to graduate in 1986. It is awarded to an undergraduate student.

Eileen Allemang Bursary

This bursary is to be awarded to a student of Peter Robinson College based on academic achievement, financial need and contribution to college activities.

Alumni OSOTF Bursary

Established by the Trent University Alumni Association. To be awarded to returning students on the basis of need, significant contribution to University life and a satisfactory academic average. OSOTF guidelines (above) apply.

AMINSS Graduate Bursary (Modelling)

These bursaries are 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 (above) apply.

The Amyotte Bursary

Established by Mary L. Amyotte (Chemistry department, Trent University 1964-1990). This bursary will be awarded annually 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.

Anthropology Faculty Bursary

This bursary will be awarded to a student in financial need with the highest overall standing in *Anthropology 100* from the previous year.

Anthropology – Graduate Students' Bursary

Graduate faculty and friends of the Anthropology department established this bursary to assist first and second year students in their studies and/or thesis research. The bursaries will be awarded based on financial need and satisfactory academic achievement. OSOTF guidelines (above) apply.

Barkley's of Avonmore Bursary

Established by Fred Barkley of Avonmore this bursary will be awarded annually to a deserving student in any undergraduate year, who is a resident of a province other than Ontario.

Barkley's of Avonmore Visa Bursary

Established by Fred Barkley of Avonmore this bursary will be awarded annually to a deserving Visa student based on satisfactory academic achievement and financial need.

Patricia Baxter Anishnabe Kwe Bursary

Awarded annually in honour of Patricia Baxter, this bursary is available to aboriginal women in their upper year studying science, computer studies/new technologies or administrative studies. Applicants must demonstrate financial need and satisfactory academic achievement. OSOTF guidelines on p. 46 apply.

The A.B.S. Bennett Bursary

This bursary is awarded annually to a female graduate student who has demonstrated leadership and involvement in their community. Applicants must demonstrate financial need and satisfactory academic achievement. OSOTF guidelines on p. 46 apply.

Birks Family Foundation Bursary

This bursary will be awarded to a deserving student in any undergraduate year based on satisfactory academic achievement and financial need.

Philip and Annie C. Black Bursary

These awards are the gift of Isadore and the late Morris Black of Peterborough in memory of their father, Philip Black, the first Rabbi in Peterborough, and their mother, Annie.

Julian Blackburn College Student Association Bursary

Bursaries are available to part-time students undertaking study at Trent on a continuing basis. Students must have been registered in JBC college for two previous sessions. OSOTF guidelines on p. 46 apply.

Julian Blackburn College Student Association Oshawa Bursary

These bursaries are available to part-time students undertaking study in Oshawa on a continuing basis. Students must have been registered in JBC for two previous sessions, demonstrate satisfactory academic achievement and financial need. OSOTF guidelines on p. 46 apply.

B'Nai Brith (Reginald R. Faryon) Bursary

The award is the gift of the Peterborough Branch of B'nai B'rith in memory of Reginald R. Faryon. Available to any undergraduate student with satisfactory academic standing and financial need.

The Bourinot Bursary

This bursary will be awarded annually 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 / her immediate family.

Jacob F. Burnham Memorial Bursary

The gift of Daisy McCarrell, a former employee of Trent University, bursaries will be awarded annually based on financial need and satisfactory academic achievement. Preference will be given to students majoring in Economics, Administrative Studies, and related fields.

The Ron Campbell Bursary

Established by Ron Campbell Enterprises, which operates McDonald's Restaurants in Peterborough and Lindsay, for students from Victoria and Peterborough Counties enrolled in Trent's Environmental and Resource Studies Program. This bursary will be awarded annually based on satisfactory academic achievement and financial need.

Champlain College Cabinet Bursary

This bursary will be awarded annually to a Champlain College student with a minimum C- average and financial need. The recipient will be chosen by a committee of the Master, Assistant to 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, these bursaries will be awarded annually to students studying Administrative Studies, Economics or Computer Studies, based on financial need and satisfactory academic achievement.

The Christian Church Bursary

Established by the Christian Church (Disciples of Christ) in Canada. To be awarded to upper year Native Students from Ontario interested in continuing their education at Trent University. This bursary will be awarded annually based on satisfactory academic achievement and financial need.

The City of Peterborough Employees' Bursary

Established by the employees of the City of Peterborough, these awards are available to any child or spouse of a City of Peterborough employee who requires financial assistance with tuition, or related costs, while attending Trent University.

Class of 1967 Bursary

Awarded annually to full-time undergraduate sons or daughters of a member of the class of 1967, with demonstrated financial need and satisfactory academic progress. OSOTF guidelines on p. 46 apply.

The Commoner Bursary

This bursary established by The Commoner Limited will be awarded annually to a full-time student based on financial need and a minimum C average.

Community Service Bursary

Established by the Quaker Oats Employees' Independent Union (Cereals), this bursary will be awarded annually to a full-time student from Peterborough County based on financial need and satisfactory academic achievement.

County of Peterborough Bursary

Established by the County of Peterborough to be awarded to deserving students in any undergraduate year who have established a minimum two years residency in the County of Peterborough (which includes the fourteen townships and four villages), has satisfactory academic standing and a demonstrated financial need.

Creery Memorial Bursary

This bursary will be awarded to a student majoring in Philosophy entering his/her fourth year of study with a B+ or better average and financial need. OSOTF guidelines on p. 46 apply.

Joyce Cumming Memorial Bursary

Established in memory of Joyce Cumming by husband, Stuart, children Shauna and Rod (Canadian Studies '87), family and friends, this bursary will be awarded annually to an upper year student in Canadian Studies, who has demonstrated financial need and satisfactory academic achievement. OSOTF guidelines on p. 46 apply.

The 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, to be awarded to deserving students in any undergraduate year. OSOTF guidelines on p. 46 apply.

The Dainard Foundation Bursary

Established by Garnet and Clara Dainard, Peterborough, to be awarded to deserving students in any undergraduate year.

The Michael Frisch Memorial Bursary

Established in memory of the late Michael Frisch, to be awarded to an undergraduate student who is actively involved in extracurricular activities within or beyond the university.

The Finn and Eileen Gallagher Bursary

The gift of alumni, family and friends, this bursary will be awarded to deserving Otonabee College students demonstrating financial need, chosen by the Head of College in consultation with the Director of Alumni Affairs. OSOTF guidelines on p. 46 apply.

GE Peterborough Bursary

A bursary in the amount of \$1000 will be awarded annually to a Catharine Parr Traill College upper year student who demonstrates a very real financial need. Candidates must have been on the Dean's list, and maintain an average of 80 %.

German Studies Bursary

These bursaries will be awarded annually to students majoring in German Studies in second year or higher, who have achieved a minimum B average in the preceding year and have demonstrated financial need.

Jon K. Grant Bursary

This bursary has been 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. This bursary will be awarded to a student in the second year of the Master's Program in Canadian Studies and Native Studies based on satisfactory academic achievement and financial need. Distinction in cultural, athletic or other community activities may also be considered. OSOTF guidelines on p. 46 apply.

Jon and Sheila Grant Bursary

Established in 1999, this bursary is given to a third or fourth year student from Canada's Northern Territories based on academic achievement and financial need. Preference will be given to a student of Inuit heritage.

Christopher Greene Bursary

This bursary, the gift of alumnus/a Doug and Maureen Loweth, honours History Professor Emeritus, Chris Greene. It will be awarded to a history student who demonstrates financial need and satisfactory academic achievement. OSOTF guidelines on p. 46 apply.

The Hamilton Foundation – Chaney-Ensign Bursary

Bursaries are available to assist financially needy undergraduate and postgraduate students. Applicants must be graduates of Hamilton secondary schools, public or separate.

The Errol Hanbidge Memorial Bursary

Established by his wife, Audrey Hanbidge, these bursaries will be awarded annually based on financial need and satisfactory academic achievement. OSOTF guidelines on p. 46 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, this bursary will be awarded annually to a student based on his/her dedication to international and national development, peace and justice issues, financial need and satisfactory academic standing.

The 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. This award will be given annually to a graduate from Lakefield College School or Lakefield District Secondary School who enrolls at Trent in the undergraduate program. The award will be based on academic standing, financial need and distinction in cultural, athletic or other community activities. OSOTF guidelines on p. 46 apply.

Victor E. Henderson Bursary

These bursaries are named in honour of Victor E. Henderson, local campaign chairman of the Trent University Second Decade Fund. The Henderson bursaries will be awarded to deserving first year students from Peterborough County based on academic achievement, financial need, and distinction in cultural, athletic or other community activities.

Henniger/Pilkington Bursary

To honour Perry and Ella Henniger and Lawrence and Norah Pilkington, the parents of Jim and Isabel Henniger, this bursary is awarded annually to a well rounded student(s), actively involved in the life of the University, be it student government, sports or music programs or University clubs, while maintaining satisfactory academic achievement. This renewable bursary is available to second, third or fourth year students in financial need. OSOTF guidelines on p. 46 apply.

Agneta Holt Bursary

The award is the gift of the University Women's Club of Peterborough as a memorial to the late Mrs. Agneta Holt. OSOTF guidelines on p. 46 apply.

The David Irwin Memorial Bursary

This bursary, established in memory of David Sutherland Irwin, a member of Trent's first graduating class and a former Professor of Biochemistry, is awarded on the basis of academic standing and financial need to a student entering the third or fourth year of an Honours Program in Chemistry or Biochemistry. OSOTF guidelines on p. 46 apply.

Jean Ann Johnston-Gauld Bursary

These bursaries, the gift of the family in memory of Jean Ann Johnston-Gauld a part-time student at Trent University from 1982-85, will be awarded annually to part-time students based on satisfactory academic achievement and financial need. OSOTF guidelines on p. 46 apply.

Rhoda Johnston Memorial Bursary

These bursaries, the gift of Robert Johnston in memory of his wife Rhoda, a long term past employee of Trent University, will be awarded annually to deserving undergraduate students in a Canadian Studies program. Bursaries will be awarded on the basis of academic achievement and financial need.

James S. Keating Memorial Bursary

This bursary is awarded annually to a deserving student. Husband of Jean, a former Trent employee, and father of Craig ('81), this bursary was established at Trent as a permanent remembrance of James S. Keating by his family.

Principal H.R.H. Kenner and PCVS Faculty Bursary

This bursary was 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. Bursaries will be awarded to graduates of secondary schools in Peterborough County based on academic achievement and financial need.

The Keppler Bursary of German Studies

Established by Hans and Christine Keppler, to be awarded annually to upper-year students studying German, based on financial need and satisfactory academic achievement.

Kiwanis Club of Peterborough Bursary

A bursary will be awarded annually to a student in second year or higher majoring in Administrative Studies, Computer Studies or Economics. Applicants must be residents of the City or County of Peterborough.

Lady Eaton College Students' Bursary

This bursary is to be awarded to a student of Lady Eaton College who can demonstrate financial need.

Lakefield Research Bursary

This bursary is awarded annually to a student in financial need who demonstrates satisfactory academic achievement. OSOTF guidelines on p. 46 apply.

Louis and Bess Loftus Fellowship Bursary

Established by Barnet David Loftus in memory of his parents. These bursaries will be awarded annually to deserving students in any year showing satisfactory academic achievement and financial need. OSOTF guidelines on p. 46 apply.

Malcolm Montgomery Bursary

These bursaries, a bequest from the estate of the late Malcolm Montgomery, will be awarded to needy students in the fourth year of the Native Studies Honours program.

John C. McDonald Memorial

Assistance from this fund, established in memory of Professor John C. McDonald former Chairman of the Sociology department, is awarded to deserving students who need financial help to continue their studies at Trent University.

John and Elaine McClintock Bursary

This bursary is awarded annually to a student in financial need with satisfactory academic achievement. OSOTF guidelines on p. 46 apply.

Métis Bursary

Established through funding initiatives of the Métis Nation of Ontario (MNO), Métis Training Initiatives (MTI) and the Ontario government, this bursary is designed to assist post-secondary students of Métis ancestry to finance their educational costs. Students must be residents of Ontario for one year prior to the start of their post-secondary education, show satisfactory academic progress and proven financial need. OSOTF guidelines on p. 46 apply.

William Hamilton Munro Bursary

These bursaries, the gift of the late Mrs. Angele Munro in memory of her husband William Hamilton Munro, are to be awarded to deserving students in any undergraduate year.

Native Studies Bursary

The Native Studies department provides bursaries for students of Metis and non-status Indian ancestry who do not qualify for educational assistance from the Indian Student Support Program. Native students who can establish financial need are encouraged to apply.

Otonabee College Council Tenth Year Bursary

This bursary is to be awarded annually 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 Parnall Bursary

This discretionary fund has been established by the family in honour of Norma Parnall to assist aboriginal women who are financially in need and successfully completing undergraduate or postgraduate programs. OSOTF guidelines on p. 46 apply.

Patterson-Drain Pioneer Bursary

This bursary was 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. The bursary goes to a Peterborough County fourth year student who has demonstrated the qualities of the early settlers of Peterborough County in their perseverance, their community spirit and their sense of adventure. Applicants must demonstrate financial need and satisfactory academic achievement. OSOTF guidelines on p. 46 apply.

Dennis Patterson Northern Bursary

To recognize the visit of the Government Leader of the Northwest Territories in 1990, this bursary is awarded annually to a deserving student from the Northwest Territories based on financial need and satisfactory academic achievement.

Dr. Julia Phelps Memorial Bursary

This bursary, in memory of Dr. Julia Phelps, an honorary graduate and long-time friend of Trent, is awarded to a student in the Cultural Studies Program who demonstrates financial need and satisfactory academic achievement. OSOTF guidelines on p. 46 apply.

William B Reid Native Bursary

This bursary was established to assist native students encountering financial difficulty. Student must demonstrate financial need and satisfactory academic achievement.

The Scott Rennie Memorial Bursary

This bursary, the gift of alumni, family and friends, is in memory of Scott Rennie, an alumnus of Otonabee College. The bursary will be awarded to a deserving Otonabee College student to be chosen by the Master of the College in conjunction with the Director of Alumni Affairs.

J.J. Robinette Memorial Bursary

This bursary was established in memory of J.J. Robinette. He was a member of the first Board of Governors and Chancellor from 1984 to 1987. Preference will be given to a History major, who has demonstrated satisfactory academic progress and financial need. OSOTF guidelines on p. 46 apply.

Peter Robinson College Bursary

These bursaries, a bequest from the estate of the late Lady Maude E. Robinson are to be awarded annually in the name of Peter Robinson, the founder of Peterborough and the brother of Sir John Beverley Robinson, 1st Baronet, to deserving students of Peter Robinson College, demonstrating financial need. OSOTF guidelines on p. 46 apply.

Peter Robinson College Cabinet Bursary

This bursary established by the Peter Robinson College Cabinet, will be awarded to a Peter Robinson student with acceptable academic achievement, and is based on financial need.

Peterborough Professional Fire Fighters' Bursary

Originally established by gifts to Trent's Second Decade Fund by the Peterborough Professional Fire Fighters Local Number 519, further gifts to the For Tomorrow Campaign and donations to the Ontario Student Opportunity Trust Fund, these bursaries will be awarded annually to students demonstrating academic achievement and financial need. OSOTF guidelines on p. 46 apply.

Rotary Club of Peterborough Bursary

Designed to assist full-time students who are permanent residents of Peterborough City and County, who have physical and mental disabilities as defined under the Human Rights Code. Preference will be given to a first year student.

Scotiabank Graduate Student Bursary

Awarded annually to graduate students in any year with proven financial need and satisfactory academic standing. OSOTF guidelines (above) apply.

Setsu Suzuki Bursary

Donated by David Suzuki in memory of his mother, Setsu Suzuki, to be awarded to a deserving student from the Third World on the basis of academic standing and financial need.

Sir Sandford Fleming College Bursary

Established by Sir Sandford Fleming College in recognition of Trent's 25th anniversary and to acknowledge the excellent relationship between our institutions, this award for a value of full tuition will be made annually to a graduate of SSFC enrolled at Trent University in a full-time or part-time program based on academic achievement and financial need.

Sisters of St. Joseph of Peterborough Bursaries

These bursaries, the gift of the Sisters of St. Joseph of Peterborough, are to be awarded on the basis of need and academic achievement to students completing the Teacher Education Program for use in their fourth year at Queen's University.

Bill and Dorothy Slavin Bursary

Established by members of the Slavin family, in memory of their parents, Bill and Dorothy Slavin, to be awarded to a deserving student from a developing country on the basis of academic standing and financial need.

The J. Herbert Smith Bursary

Established by J. Herbert Smith to be awarded annually to a deserving student in their undergraduate year. As Chief Executive Officer, Dr. Smith was instrumental in arranging for the original gift of land to Trent University by GE Canada.

T.D. Bank Financial Group Bursary

This bursary is available to part- or full-time students who demonstrate financial need. Recipients must be registered in computer science courses and may be residents of any province or territory in Canada.

David Tapscott Bursary

Established by his family in memory of David Tapscott ('69), this bursary will be awarded to a student in any year showing satisfactory academic achievement and financial need. OSOTF guidelines on p. 46 apply.

Catharine Parr Traill College Students' Bursary

This bursary is to be awarded to a student of Catharine Parr Traill College who can demonstrate financial need.

William Thompson Graduate Bursary

This bursary, a bequest from the estate of the late William Thompson (1891-1978) of Westwood, Ontario, will be awarded annually to a student registered in a graduate program, based on financial need and satisfactory academic progress.

Trent Central Student Association Bursary

A gift of the Trent Central Student Association, this bursary will be awarded to a student in any year who displays academic progress and has financial need. OSOTF guidelines on p. 46 apply.

Trent University Alumni Bursary

Established by the Trent University Alumni Association, to be awarded to returning students on the basis of need, significant contribution to University life, and an acceptable academic average.

TUFA Bursary

These bursaries are funded by the faculty and professional librarian members of the Trent University Faculty Association. They will be awarded annually to students in second year or higher, who achieved a minimum B average in the preceding year and have demonstrated financial need.

The Trent University S & A Bursaries

The employees of Trent University have donated bursaries to be awarded to students who demonstrate financial need, 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, an award will be made annually to a deserving student currently registered in the fourth year of an Honours program and proceeding to graduate studies at Trent University. The award will be based on financial need and academic achievement.

Visa Student Bursary

Established by the Board of Governors of Trent University to be awarded to visa students in any undergraduate year with satisfactory academic standing and who can demonstrate financial need.

The D. R. Walling Family Bursary

Established by the Walling Corporation of Lindsay, these bursaries will be awarded annually to students majoring in business or environmental studies, based on financial need as well as fitness/health and community involvement.

Rodney F. White Memorial Bursary

This bursary, the gift of alumni, family and friends was established in memory of the late Rodney F. White, Professor of Sociology. Preference for this bursary will be given to Sociology majors or any other needy students. OSOTF guidelines on p. 46 apply.

The Billie Wilder Bursary

This bursary, established by Judith R. Wilder, an honorary member of Trent's Board of Governors, will be awarded annually to a deserving student in any undergraduate year based on satisfactory academic achievement and financial need. OSOTF guidelines on p. 46 apply.

The P. S. B. Wilson Bursary

This bursary, established in honour of Paul S. B. Wilson, Director of Athletics, will be awarded annually to a returning student on the basis of satisfactory academic achievement, financial need, and a significant contribution to the athletic program. OSOTF guidelines on p. 46 apply.

INTERNATIONAL STUDY AWARDS

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.

Kevin Bond Memorial Grant

Established by Kevin Bond's family, this grant is given to a third year History or Political Studies student who is enrolled in one of Trent's study-abroad programs. Selection is based on academic achievement and financial need. Administered by the Trent International Program.

Dr. Leslie Calvert Award

Named after one of Trent's first students of German, this award is for deserving students who require financial help to participate in the Year Abroad Program in Freiburg.

W.A.C.H. Dobson Memorial Student Travel Award

Named in honour of W.A.C.H. "Bill" Dobson, a renowned scholar and great friend of Trent, this award assists 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 Award

Established in honour of Joseph Wearing, Professor Emeritus and former Chair of Political Studies, this travel bursary is offered to assist an international student to come to Trent University to take courses in Political Studies. It is open to visa students admitted to the University for one-year exchange and full degree programs. Administered by the Trent International Program.

EXTERNAL BURSARIES

Many organizations and companies offer bursary assistance to post-secondary students. Information is available in high school guidance offices as well as Financial Aid Offices. The following bursaries are administered through the Trent Financial Aid Office.

Hamilton Community Foundation

This foundation provides assistance for full-time undergraduate students who can prove financial need, and 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 Financial Aid Office and student must be recommended by that office.

Leonard Foundation

Bursaries averaging \$1250 are available to financially needy students. 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 Financial Aid Office and student must be recommended by the Financial Aid Administrator.

Royal Canadian Legion

Bursary assistance of up to \$1000 is available 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 Auxillary members and their children. Awards are based on financial need, and are determined by the District Bursary Committee. Applications are available at the Financial Aid Office.

Awards

Financial assistance through Trent University's award program is designed to acknowledge those students with outstanding academic qualifications and proven financial need. These awards are made possible through the Ontario Student Opportunity Trust Fund. In 1996/97 the Province of Ontario established the Ontario Student Opportunity Trust Fund. 50 % of this fund is provided by the Province, and 50 % has been raised through fund raising initiatives by the University. The trust fund represents an endowment fund. Annual proceeds from investment earnings are available in the form of awards to Ontario residents enrolled full-time, part-time or as graduate students. (Refer to specific OSOTF residency guidelines listed under bursaries).

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, Philosophy and English. OSOTF guidelines apply.

Bagnani Undergraduate Awards

Established in 1997 by the Dewar Memorial Fund, these annual awards honour the late Professor Gilbert and Stewart Bagnani. Undergraduate awards will be granted to Ontario students in the Honours' year 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, Philosophy and English. OSOTF guidelines on p. 46 apply.

The Cranston Family Award

This award, a gift of alumnus/a John and Mary Cranston, is awarded annually 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. Applications will be available in early January.

City of Peterborough Awards

These awards, established in 1997, will be given 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

This 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, is given annually to a student of high academic standing who is in financial need. OSOTF guidelines apply. Applications will be available in January.

The Dudas Award

This award, a gift of Frank and Jane Dudas, is given annually to a first year student who demonstrates high academic achievement and financial need. OSOTF guidelines on p. 46 apply.

The Lopes Family Award

This award was 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. This award will be presented annually to a student in financial need who has demonstrated high proficiency in Western European Studies, with special consideration of Portuguese Studies. OSOTF guidelines on p. 46 apply.

The T.E.W. Nind Award

This award was established in memory of Professor T.E.W. (Tom) Nind, President of Trent University from 1972-79. The award will be given to a major or joint-major in Mathematics who demonstrates financial need and high academic standing. OSOTF guidelines on p. 46 apply.

Peterson Burfield Family Graduate Award

This award has been established in honour of the late Margaret (Betty) Burfield. It is available to graduate students in the field of Anthropology. OSOTF guidelines on p. 46 apply.

Robert Darou Norris Pritchard Award

This award will be made to a full-time undergraduate entering fourth year majoring in Environmental & Resource Studies or a full-time graduate student entering final year of Watershed Ecosystems. Preference will be given to residents of Counties of Northumberland, Peterborough, Victoria and the Regional Municipality of Durham.

Peter L. Roach Award

This award was 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 on p. 46 apply. Applications will be available in January.

Scholarships

(for Graduate scholarships and prizes, refer to the *Graduate studies* section of the Calendar)

UNDERGRADUATE SCHOLARSHIPS

The University has a full and diverse scholarship program designed to foster and reward high academic achievement among its students. Funding for the program comes not only from the University itself, but also from the many private donors whose generosity has created a wide range of endowed scholarships and prizes.

Trent University offers both entrance and in-course scholarships. All new students entering the University are automatically considered for entrance scholarships. No separate application for any major scholarship is required, with the exception of the Champlain, Board of Governors' Leadership, and Trent University Special Admission Scholarships. Likewise, no separate application is required for in-course scholarships, since all continuing Trent students are automatically considered for such scholarships, normally upon completion of each sequence of five full courses or equivalent.

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. Holders of renewable scholarships must maintain a minimum average of 80 percent in a sequence of five full courses in order for their scholarship to be renewed. The University endeavours to provide all scholarship holders, including those from the Peterborough area, with places in residence if they wish them.

SCHOLARSHIPS REQUIRING SEPARATE APPLICATION

Please note: Previous winners of these scholarships have normally had an average of 90 percent or better.

Trent's most prestigious scholarships, the Champlain Scholarships, the Board of Governors' Leadership Scholarships, 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.

The Champlain Scholarships

These scholarships are awarded to entering students of exceptionally high academic achievement and promise. They have an overall value of \$15,500 consisting of \$8,000 in the first year for students in residence (\$2,500 if not in residence), and \$2,500 in each of the succeeding three years providing that scholarship standing of 80 percent is maintained.

The Board of Governors' Leadership Scholarships

This scholarship is awarded to an entering student who has shown outstanding leadership and involvement in his/her community as well as high academic achievement. It has an overall value of \$10,000 consisting of \$4,000 in the first year, and \$2,000 in each of the succeeding three years providing that scholarship standing of 80 percent is maintained.

The Trent University Special Admission Scholarships

These scholarships are awarded to entering students of outstanding academic and extra-curricular achievement. They have an overall value of \$7,500 consisting of \$3,000 in the first year, and \$1,500 in each of the succeeding three years providing that scholarship standing of 80 percent is maintained.

ENTRANCE AND IN-COURSE SCHOLARSHIPS**The Robert Annett Scholarship**

This scholarship is 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 scholarship, the gift of the Annett family, friends and alumni, is normally awarded annually to an Otonabee College student majoring in Chemistry, preferably Biochemistry.

The Bill Armstrong Scholarship

This scholarship, the gift of Daryl Bennett in memory of William (Bill) Armstrong of Orono, is awarded annually, on the recommendation of the co-ordinator of the Northern and Polar Studies program, to a student of high achievement and promise, entering the Honours year with an Emphasis in Northern and Polar Studies.

The Bata Scholarship

This scholarship is the gift of Thomas J. Bata, one of the original honorary sponsors of the University and a member of the Board of Governors.

The Binney and Smith Scholarship

This scholarship, established by Binney & Smith (Canada) Ltd. of Lindsay, is awarded to students in the Trent-Queen's Teacher Education Program.

The Biology Department Scholarship

This scholarship is awarded annually to a student of high academic achievement and promise entering the third or fourth year of the Biology program.

The Julian Blackburn College Principal's Scholarship

This scholarship is awarded annually to a student enrolled in the part-time credit program, who has completed at least five full courses or equivalent as a part-time student at Trent, and who has demonstrated high overall academic achievement.

The Maurice Boote Scholarship

This 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, is awarded annually to an outstanding student entering the fourth year of the Honours program in Economics.

The John Brooks Community Foundation Scholarship

This entrance scholarship of \$1,500 is 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.

The Winifred Elizabeth Burton Scholarship

This scholarship of the value of \$1,000 is awarded annually to an outstanding student entering first or a higher year.

Cyril and Jenny Carter Scholarships in Environmental Studies

This scholarship is awarded to a student of high academic achievement and promise entering the second, third or fourth year of the Environmental Studies program.

Cyril and Jenny Carter Scholarship in Mathematics

This scholarship is awarded to a student of high academic achievement and promise entering the second, third or fourth year of the Mathematics program.

The Anthony Cekota Scholarships

These scholarships were 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. The scholarships are awarded annually to students demonstrating exceptional academic performance.

The Sylvia Cherney Scholarship

The Sylvia Cherney Scholarship, the gift of the late Harry Cherney and of Brian Cherney and Lawrence Cherney, is named in memory of Sylvia Cherney and is available to in-course students majoring in English Literature with the aim of encouraging promise and interest in the study of drama.

The Cranston Scholarship

This scholarship, a gift of alumnus/a John and Mary Cranston, is awarded annually to a current Trent student who has demonstrated considerable academic improvement while at Trent.

The Howard Darling Scholarship

This scholarship, established in honour of Howard Darling, Supervisor, grounds and custodial services, is awarded annually to an upper-year student who has demonstrated excellence in Environmental and Resource Studies.

The Roscoe F. Downey Scholarship

This scholarship, the gift of the late Roscoe F. Downey of Peterborough, is awarded to an entering student from Peterborough or Victoria County.

The William Paxton Eastwood Scholarship

This scholarship, the gift of the late William Paxton Eastwood, a former citizen of Peterborough and Ocala, Florida, is awarded in recognition of academic excellence.

The Roy L. Edwards Scholarship

This 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, is awarded annually 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.

The Department of English Literature Scholarship

This scholarship, the gift of the English Literature department, is awarded to the best student entering the fourth year of the Honours program in English Literature.

The Ewing Memorial Scholarships and Honours Awards

Several awards are available each year for students entering the University and for Honours students undertaking a fourth year of study. These scholarships are the gift of the late C.W. Ewing, a native of Warkworth, Ontario.

The Faculty Scholarship

A scholarship, the gift of a member of the founding academic staff of Trent University, is awarded to an entering student living in residence.

The Reginald R. Faryon Scholarships

These scholarships, the gift of the Quaker Oats Company of Canada, are named 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.

The Eugene Forsey Scholarships

These 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, are awarded annually to outstanding students proceeding towards a degree in Administrative Studies.

The Robert M. Fowler Scholarship

This 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, is awarded annually to a student in the Administrative Studies Program or to one undertaking policy studies in other appropriate university departments.

The Rufus Gibbs Scholarships

These scholarships, the gift of the late Rufus C. Gibbs, are awarded annually to students in all years, on the basis of academic standing, all-round achievement, and character.

The John Gilchrist Memorial Scholarship

Named in memory of John Gilchrist, a distinguished medieval scholar who taught at Trent, this scholarship is awarded to an upper-year student with a single or joint major in one of Ancient History and Classics, Canadian Studies, Cultural Studies, English, History, Modern Languages, or Philosophy.

The Joseph Ernest Goodhead Scholarship

This scholarship, of the value of \$100, the gift of an anonymous donor, is awarded for excellence in the study of biology.

The Hector and Geraldine Elizabeth Gray Scholarships

These scholarships, the gift of the late Hector and Geraldine Elizabeth Gray, are awarded annually to students entering the third year of a Bachelor of Arts program.

The Brian Heeney Scholarship

This scholarship, established as a memorial by Brian Heeney's family, friends, and colleagues, is awarded to an outstanding student entering first year.

The 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 annually to an outstanding student entering the final year of the Honours program in English literature.

The Howson Scholarship

The George Henry and Jane Laing Howson Scholarship is the gift of the late Miss A. Howson and the late Mrs. M.H. Simpson, and is named in memory of their late parents. The scholarship is awarded to a student with high academic standing who is proceeding to the degree of Bachelor of Arts.

The Imasco Scholarships

These scholarships, the gift of Imasco Ltd., are awarded to students of high academic achievement entering first or a higher year in the University.

The Richard B. Johnston Scholarship

A scholarship, donated by the family of Professor Richard B. Johnston of the Anthropology department in his memory is awarded to a deserving student in North American archaeology.

The Francis Dean Kerr Scholarship

This scholarship, the gift of the late Mrs. F.D. Kerr of Peterborough, is named in honour of her late husband who was one of the original honorary sponsors of the University.

The Margaret Laurence Scholarship

This scholarship, named in honour of the late Margaret Laurence, a former Chancellor of the University, is awarded annually for outstanding achievement in the fields of Canadian literature or Canadian studies.

The Town of Lindsay Scholarship

This scholarship, established by the Corporation of the Town of Lindsay, is awarded to an entering student of high academic achievement from the Town of Lindsay, who has also demonstrated peer leadership in the school setting and involvement in community affairs.

The Lodge Physics Scholarships

These scholarships, named in honour of the founding chair of the Physics department, are awarded annually to the best student in the introductory Physics course who is continuing in a program leading to a single- or joint-major in Physics, or who is continuing in the Chemical Physics Program and enrolled in at least one Physics course at an advanced level; and the best student in the second year who is entering the third year of a single- or joint-major program in Physics or Chemical Physics.

The Dr. Ross Matthews Scholarship

This scholarship, established in honour of the late Dr. Ross Matthews, is awarded annually to an entering student for demonstrated academic excellence.

The Ralph McEwen Scholarships

These scholarships, established in honour of the late Ralph McEwen, are awarded annually to students who are undertaking courses in Canadian literature or Canadian social history.

The William Allan Newell Scholarship

This scholarship, the gift of the late Judson Newell of Prescott, and named in honour of his father, the chairman and founder of the Newell Manufacturing Co., Ltd., is awarded to an entering student proceeding to the degree of Bachelor of Science.

The Robert J.D. Page Scholarship in Environmental and Resource Studies

This scholarship, established by Dr. Robert J.D. Page who was associated with the ERS program from its beginning, is awarded annually to a student entering fourth year who best combines academic achievement and public environmental service.

The J. J. Robinette Scholarships

These scholarships were 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.

The Peterborough Examiner Scholarship

This scholarship, the gift of the Peterborough Examiner Co. Ltd., is awarded to an outstanding student entering first or a higher year and living in residence.

The Helen and Barney Sandwell Scholarship

This 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, is awarded annually to an outstanding student majoring in English literature entering the third year of a degree program in English.

The Katherine E. Scott Scholarship

This scholarship, the gift of the late Dr. C.M. Scott of Peterborough, is named in honour of his late wife.

The William Bligh Shaw Scholarship

This scholarship, the gift of Muriel Beatrice Shaw, is awarded annually to an outstanding student entering the first year of the Administrative Studies Program.

The H. Clare Sootheran Scholarship

This scholarship, the gift of the late H. Clare Sootheran of Peterborough, is awarded for excellence in the Faculty of Arts.

The Ian Stonehewer Memorial Scholarship

Named in honour of Ian Stonehewer, B.A. Honours 1975, this scholarship, the gift of Mr. and Mrs. John Stonehewer, is awarded annually for excellence to a student entering the fourth year of the Honours program in History.

The Carolyn Sarah Thomson Scholarship

This scholarship was 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. It is awarded for excellence to a student entering the third year of the Canadian Studies Program.

The Trent University S & A Scholarship

These two scholarships, of the value of \$500 each, the gift of the employees of Trent University, are awarded annually 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.

The Trent University Scholarship

Several Trent University Scholarships are available to students of high academic achievement entering first or higher years in the University.

City of Trenton Scholarship

This scholarship, established by the Corporation of the City of Trenton, is awarded to an entering student from the city of Trenton.

The James G. Wharry Scholarship

This scholarship, a gift of the Quaker Oats Company of Canada, of the value of full tuition for the fourth year, is awarded annually for excellence to a student entering the fourth year of the Honours program in Canadian Studies.

EXTERNALLY AWARDED SCHOLARSHIPS:

A number of scholarships (and bursaries) are awarded by bodies outside the University. Several corporations, for instance, have special programs for dependents of their employees. Students should consult their guidance counsellors concerning these awards.

INTERNATIONAL SCHOLARSHIPS

The following scholarships are available for international visa students. They require a letter of application to the Trent International Program accompanied by an application for admission to Trent University, certified transcripts, certified evidence of proficiency in English (see *English language requirements* under *Regulations*) and three letters of reference (including two from current or former teachers). For scholarships designated for United World Colleges or advertised through Canadian Education Centres abroad, application should be made directly to the appropriate United World College or Canadian Education Centre.

Holders of renewable scholarships must remain in good academic standing for their scholarships to be renewed.

Tom Nind International Scholarship

This scholarship is named in honour of the late Tom Nind, Trent University's second President. It is 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

This scholarship is named in honour of Jack Matthews, the founding Director of both Pearson College of the Pacific and the Trent International Program. It is awarded each year to an international student entering Trent University from Pearson College of the Pacific. Based on high academic achievement and an assessment of financial need, selection for this renewable scholarship places special emphasis on outstanding community and/or international service. It covers international tuition fees, ancillary fees, residence and, depending on need, health insurance, a book allowance and some living expenses for the eight-month academic year.

International Tuition Scholarships

Based on high academic achievement, community and/or international service and open to all non-Canadian students or residents (or, in some cases, designated nationals), these renewable scholarships cover international tuition fees.

TIP Tuition Levy Scholarship

This renewable scholarship is funded by the students of Trent University through an annual levy. Based on high academic achievement and a strong record of community and/or international service, a TIP Tuition Levy Scholarship is 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, are awarded to citizens of Singapore in recognition of outstanding academic and extracurricular performance. They cover international tuition fees, residence and travel. Application is through the Singapore International Chamber of Commerce.

Medals

Governor-General's Medals

The gold medal is awarded to the graduate student with the highest standing on graduation and the silver medal is awarded to the student with the highest standing on graduation with an Honour's Degree.

President Symons Medals

The Symons Medals were established in 1972 in honour of T.H.B. Symons, the founding president of Trent University. These medals are awarded to students in the Honours program who achieve high overall standing on graduation.

Professor Gilbert Bagnani Medals

The Professor Gilbert Bagnani Medals were established in 1986 to honour the late Professor Gilbert Bagnani, one of the founding faculty members of Trent University. The medals are awarded to graduating students in the General program who achieve high overall standing.

Prizes

Ambassador of Switzerland Prizes in French and German

These prizes, the gift of the Ambassador of Switzerland, are awarded to the undergraduates who have obtained the highest standings in the French and German languages in their graduating year.

Anthropology Society Prize

This prize is awarded to the most outstanding Anthropology 100 student on the basis of tutorial work and overall marks.

Sir Donald Banks Prize

This prize, the gift of Professor D.L. Smith in memory of her father, is awarded annually to a promising student in Spanish planning to participate in the Year Abroad Program.

Bruce Barrett Memorial Prizes

In memory of Bruce Barrett, a former Trent Philosophy student, several prizes are awarded annually to outstanding students in first-year courses in Philosophy. Approximate value \$100 each.

Bigwin Memorial Award

This prize is awarded on behalf of Elizabeth Bigwin to an aboriginal student in Native Studies 260 who not only demonstrates academic excellence, but also contributes to the well-being of the community at Trent or the community at large.

Department of Biology Prizes

Awarded to students who show excellence in the study of Biology in first or higher years.

Biology Undergraduate Thesis Award

Given annually in recognition of the highest achievement in the Biology research thesis.

Gordon Campbell Memorial Award

In memory of Gordon Campbell, a former Trent Geography student, one award of \$350 is given annually 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

This award, presented by the Canadian Association of Geographers, is offered each year to the Honours Geography student at Trent who is judged to have the best academic record in fourth year.

Canadian Scholars' Press Award

This prize is awarded for outstanding achievement in *Anthropology 240*.

Robert Chambers Prize

This prize, established in 1996 to honour Professor Robert Chambers on his retirement, is awarded annually to the best student graduating from the Honours program in English Literature.

Donald Chase Memorial Prize

This prize, in memory of Donald Chase, a Trent student in 1989, is awarded annually for the best essay in Canadian history written by a first-year undergraduate at Trent.

William B. Common, QC, LL D Memorial Prize

This prize is awarded to the student achieving the highest academic standing in first-year (Canadian) Macroeconomics.

Comparative Development Prizes

The prizes are awarded annually to students with the highest overall standing in the 100, 200 and 400 level central core courses in Comparative Development Studies.

Computer Studies Prize

Awarded to the outstanding student(s) graduating from a joint-major program in Computer Science/Studies.

Consul General's Prizes in French

These prizes, the gift of the Consul General of France, are awarded to the leading undergraduates in French Studies within the University.

CRC Press Freshman Chemistry Achievement Award

This prize is a gift of a copy of the CRC Handbook of Chemistry and Physics from the CRC Press Inc., and is awarded to a student at the end of first year on the basis of outstanding academic achievement in Chemistry.

James Creery Memorial Essay Prize

This prize, in memory of James Harold Creery, a Trent student of Philosophy in 1972-74, is awarded annually for the best philosophical essay written by an undergraduate at Trent.

The Cultural Studies Faculty Prize

The Faculty Prize was established in 1988 through contributions from the Cultural Studies faculty. It is 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 annually by the program. Value \$300.

Currie Honours Awards

These awards are presented annually to students enrolled in *Geography 401* or *402* in the Winter session on the basis of both academic achievement and proposed thesis research. A total prize of \$1000 is divided among up to three selected winners.

The J. Emmett Duff Memorial Prize in Geography

This prize, the gift of Professor T.H.B. Symons, Celanese Canada Inc., and John D. Stevenson QC, was established 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

This prize, a gift of the Economics department, is awarded to the student achieving the highest academic standing in first-year Microeconomics.

Essay Prize in Honours Economics

This prize, the gift of the Economics department, is awarded each year to an honours student submitting the most outstanding essay in *Economics 401*.

Embassy of Spain Prize in Hispanic Studies

Awarded to an outstanding student in upper years majoring in Spanish.

Environmental and Resource Studies Program Prize

This prize, a gift of the ERS program, is awarded annually to a first-year student achieving the highest academic standard in the first-year ERS course.

The Marjorie Elizabeth Foster Prize

This prize, given in memory of Marjorie Elizabeth Foster, is 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

These prizes are offered by members of the French Studies section to outstanding students of first-year French Studies.

French Studies Staff Prize (Nantes Program)

This prize is awarded annually by members of the French Studies section to the outstanding participant in the Nantes Year Abroad Program in French Studies.

The Gregory R. Frith Memorial Prize in Cultural Studies

This prize was established in honour of the late Gregory R. Frith, B.A. Honours 1977. It is 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 annually by the program. Value \$300.

The Honourable Leslie Frost Prize

This prize, the gift of the late Hon. Leslie M. Frost, PC, Prime Minister of Ontario from 1949 to 1962 and first Chancellor of Trent University, is awarded to the leading undergraduate in the first-year course in Canadian history.

Gadfly Prizes

These prizes are 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.

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.

Guinand Prize

This prize, in honour of the first chair of the Mathematics department, is awarded to a student of high promise in the Mathematics Program, normally on entering the fourth year of the Honours program.

Graham Hartley Prize

This award, presented by the Chemical Institute of Canada (Peterborough Section) in honour of Graham Harry Hartley, Ph.D., M.C.I.C., is given to first and second year students who have shown excellence in the field of general chemistry.

The Honourable George S. Henry Prize

This prize, 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, is awarded to the leading undergraduate in the first-year course in Political Studies.

Linda Hubble Book Prize

Named for Anthropology and Women's Studies professor Linda Hubble and originally endowed by the Peterborough Women's Committee, this prize will be awarded annually based on academic achievement as well as contributions to the vitality of the program.

The Arnold Hyson Prize in Maritime Studies

This prize is awarded to the student with the most outstanding research paper in *Canadian Studies - History 307*.

The David Sutherland Irwin Prize

Established in memory of the late Professor David Irwin, this prize is awarded on completion of *Chemistry - Biology 330* to a student with outstanding performance in Biochemistry.

The Richard B. Johnston Memorial Prize

A prize, donated by the family of Professor Richard B. Johnston of the Anthropology department in his memory is awarded to a deserving student in Ontario archaeology.

The K.E. Kidd Memorial Awards

These prizes are awarded each year to graduating students who have demonstrated the highest degree of ability and achievement in the Diploma Program of the Native Studies department.

F. Alan Lawson Memorial Prize

Sponsored by the Central Ontario Chartered Accountants Association, this award is made annually to the student majoring in the Administrative Studies Program, who achieves the highest combined mark in fundamentals of financial accounting and fundamentals of management accounting (*Administration 201H* and *202H*).

The Helen E. MacNaughton Prize

This prize is awarded to an outstanding student in Philosophy entering fourth year.

The J. Percy MacNaughton Prize

This prize is awarded to the student achieving the highest academic standing in Environmental and Resource Studies entering the fourth year.

The Makhija Prize in Chemistry

This prize, the gift of R & R Laboratories, is awarded to the student with the best overall performance in 300-level courses in Chemistry.

The McColl Turner Prize in Accounting

Presented by McColl Turner, Chartered Accountants, to the leading undergraduate student in *Administration 300*, who intends to pursue a career as a chartered accountant.

David N. McIntyre Conservation Award

Presented by the Otonabee Region Conservation Authority to the outstanding Geography student who has demonstrated an interest in conservation.

Jane McLarty Memorial Prize

This prize, given in memory of Jane McLarty, a member of Lady Eaton College from 1987-1990, is awarded annually to a deserving student entering the third or fourth year of studies in English Literature.

The Heather J. Glendinning McMurter Memorial Award

This award was established in memory of Heather J. Glendinning McMurter who graduated with a B.Sc. from the Environmental Studies Program in 1988. Awarded annually to a student entering the fourth year (having completed 15 courses) of Environmental and Resource Studies whose research paper in *ERS 300* or *400* level is judged to be the best of the year.

Midwives' Prize

This prize is 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. The prize is awarded to the student with the highest overall standing in the first year.

The Norma Miller Essay Prize

Administered jointly by Catharine Parr Traill College and the department of Ancient History and Classics, these prizes honour the memory of Norma P. Miller, an honorary fellow of Traill and frequent visitor to the Classics department. They are awarded to the best essay in each of two competitions, one in Classical Literature 100 and the other in Roman history.

Joyce Moonias Memorial Awards

These awards, donated by Frances Six in memory of Joyce Moonias, Native Studies student 1982-83, are offered annually to the student with the highest academic standing in *Native Studies 280* and *380* (Ojibway language).

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.

The Native Studies Award

These prizes, in memory of Harvey G. Greene of Peterborough, are awarded to outstanding students in Native Studies.

The Organic Chemistry Prize

Awarded annually to a student who has demonstrated substantial improvement in the field of organic chemistry, normally on completion of *Chemistry 310*.

The Pammatt Historical Prize

Awarded annually, 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. This prize is established by the late Howard Pammatt (1909-1993), in honour of his parents, Robert and Ruby Pammatt.

Peace Hills Trust Prize

The Peace Hills Trust Prize of \$500 will be awarded annually to the top aboriginal student, in terms of academic achievement, completing the second year of the Emphasis Program in Native Management and Economic Development.

Peterborough Historical Atlas Foundation Prize

This prize is to be awarded to the undergraduate whose essay or project on a Canadian subject is deemed outstanding. An interdisciplinary panel will select the winner from the entries submitted by faculty in appropriate disciplines.

Peterborough Professional Engineers Wives' Association Prize

This prize, a gift of the association, is awarded to an undergraduate who shows excellence in 200-level courses in Physics or Chemistry.

John Pettigrew Prizes

These prizes, established in memory of the late Professor John Pettigrew, are awarded annually for the best student essays submitted in first-year English.

Department of Physics Prize

This prize, a gift of the Physics department, is 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, this prize is given to a student entering the fourth quarter of the Biology program who has demonstrated excellence in the area of fisheries and aquatic sciences.

The Andrew Priestman Memorial Prize in Political Studies

This book prize was established in honour of the late Andrew Priestman, Honours B.A. 1991. It is awarded annually to a graduating student in Political Studies who has maintained a solid academic achievement and made an above-average contribution to student life and the activities of the Political Studies department. Students and faculty are encouraged to make nominations.

The R & R Laboratories Prize in Analytical Chemistry

This prize, the gift of R & R Laboratories, is awarded to a student with outstanding performance in analytical chemistry on completion of a 300-level course in chemical analysis.

Department of Psychology Prizes

These prizes, a gift of the Psychology department, are awarded to outstanding students in Psychology.

Victor T. Ridley Memorial Prize

This prize, the gift of Mrs. F. Millard in memory of the late Victor T. Ridley of Peterborough, is awarded to the leading undergraduate in first-year Mathematics.

J. J. Robinette Prize

The J.J. Robinette Prize is awarded in honour of the late Dr. John J. Robinette, an eminent constitutional and criminal lawyer, and Trent University's fifth Chancellor. The prize is awarded to the scholastically outstanding graduate of Trent University in any year who undertakes the study of law at another Canadian university.

Barbara Rooke Prize

This prize, established in memory of the late Professor Barbara Rooke, is awarded annually to the best student in English 210: The Romantics.

J. Paul Scott Jr. Memorial Prize

Established in memory of J. Paul Scott Jr., to be awarded to a deserving student enrolled in *Psychology 401* or *402* (Honours thesis).

The Denis Smith Essay Prize

This prize, the gift of the Political Studies department, is awarded each year to a fourth-year student submitting an outstanding essay in Political Studies.

The Honourable Sidney Smith Prize

This prize is 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 and is awarded annually to the leading undergraduate majoring in Political Studies and History in the second year.

The Society of Chemical Industry Student Merit Award

This award is given 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.

The Society of Management Accountants Prize

This prize is awarded to the student proceeding to fourth year in the Administrative Studies Program who has achieved the highest overall standing in all accounting subjects.

The Sophia Prize

This prize, established in 1999 to honour Professor Robert Carter on his retirement, is awarded annually 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, this prize is awarded annually to an outstanding female student entering her final year of an Honours degree in the Women's Studies Program.

The 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

These prizes were 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. Three prizes are awarded annually for outstanding essays in second-, third- and fourth-year courses.

The Norman Townsend Prize in Anthropology

An annual award, 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

This award of the value 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

This prize in Economics is awarded annually to the student completing the third quarter of the 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 are awarded annually 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**

These three prizes are awarded annually to the continuing College students with the highest academic standing during each of the first, second and third quarters of their academic programs.

Peter Robinson College Fellows' Prize

The prize is awarded on the basis of overall academic standing to a graduating student in the fourth quarter of an honours program.

Robert Lightbody Prize

This prize was established by the Alumni Association to honour the contributions to the University of alumnus Robert Lightbody, a member of Trent's first class. It is awarded annually 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

This prize is awarded to the Catharine Parr Traill College student with the best academic performance in the freshman year.

Champlain College Master's Prize

The prize is awarded to the graduating student of the college with the highest overall standing in fourth quarter, Honours.

Champlain College Fellows' Prize

The prize is awarded to the graduating student of the college with the highest overall average in the third quarter, General.

Champlain College Senior Tutor's Prize

Awarded annually to the Champlain College student who has achieved the highest average at mid-year.

Christopher Greene Award

Awarded annually in honour of Christopher Greene, former senior tutor of Champlain College, to a graduating student within the college who has demonstrated considerable academic improvement while studying at Trent University.

John Rymes Book Award

This book prize is awarded by the senior tutor of Champlain College to a student of the college who has benefitted most from a Trent University education.

The Lady Eaton College Fellows' Prize

An award given by the Fellows of Lady Eaton College to a graduating student of the college for academic excellence over his or her university career.

The McCalla-Standen Award

This award, in honour of two former principals of Lady Eaton College, is presented annually 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.

The Marjory Seeley Prizes

Up to three prizes are awarded annually 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 Senior Common Room Prize

This prize is awarded to the Otonabee College student with the best academic performance in the freshman year.

Otonabee College Prize

This prize is 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.

John Stubbs Prize

Created as a tribute to Trent University's fourth President, the prize is awarded by the senior tutor to the full-time undergraduate student member of Otonabee College with the highest average at mid-year.

The 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.

The Scott Rennie Otonabee College Spirit Award

This prize, the gift of alumni, friends, and family (and companion to the Eileen Gallagher Award) is awarded to a deserving male Otonabee College member.

Julian Blackburn College Prizes

These two prizes are awarded to Julian Blackburn College students who graduate with the highest academic standing in the Honours and General program.

Trent Alumni Summer Session Prizes

These two prizes, the gift of the Trent University Alumni Association, are awarded annually for outstanding academic achievement by Julian Blackburn College students in the on-campus and the Oshawa Summer session (including intersession).

STUDENT SERVICES AND FACILITIES

Trent students have access to a broad range of services and facilities designed to assist and support them academically, and enhance their social and cultural experience at Trent. Student organizations sponsor a host of formal and informal events throughout the year, and student-driven initiatives such as a community radio service, student newspapers, drama, art and film societies, and many others serve to enrich student life. Students also take an active role in planning many of the more formal services offered through the University by sitting, along with Student Services representatives, on several university-wide committees that deal with service planning and implementation.

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 full-time student in the residential Colleges is assigned an academic adviser from among the faculty or staff affiliated with that College. Students affiliated with Julian Blackburn College (normally part-time students or full-time students studying in Oshawa) receive academic advising from the Julian Blackburn College Academic Counsellor. (See *Part-time study opportunities* for more information about JBC). Academic advising is also available through Trent's office at Durham College. While **the ultimate responsibility for course selection and compliance with the University's academic regulations rests with the student**, an adviser can assist with matters of course selection, interpretation of academic regulations, the selection of majors, compliance with university deadlines, etc. Students are advised to make maximum use of their 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 and Petitions (CUSP). This committee consists of the five Senior Tutors, the JBC Academic Counsellor and a student from each college. CUSP reviews students' petitions and appeals regarding academic regulations.

Appeals and Petitions

Students who believe they have legitimate cause to request an exemption from an academic regulation should consult with their senior tutor. The senior tutor will consult with the student to determine whether the petition should proceed and, if appropriate, will present the petition and advocate on behalf of the student before the Committee on Undergraduate Standings and Petitions (CUSP). A student who wishes to attend the meeting and present the petition personally to the committee may do so. A student who believes that the decision of CUSP is unjust may appeal through the Special Appeals Committee. Students make petitions to Special Appeals through the University Secretariat. The decision of the Special Appeals Committee is final.

Academic Skills Centre

Telephone: (705) 748-1720

E-mail: acdskills@trentu.ca

Fax: (705) 748-1830

Web: www.trentu.ca/acadskills

Director: Karen Taylor

The Academic Skills Centre offers both individual and group assistance in writing, critical and efficient reading, mathematics, time management, and study skills. Any Trent student may use the services of the Centre; the length of the contact varies from a single session to regular, long-term assistance.

During Introductory Seminar Week the Centre administers a diagnostic writing exercise. On the basis of the results of this exercise, some students are advised to seek help either by taking workshops or by working one-to-one with an instructor.

Many students begin work at the Centre in the early weeks of their first year;

however, students may come for help at any time throughout their years at Trent. While the Centre's main office is located at Traill College, some students may find it more convenient to meet with an instructor at one of the Champlain College offices. At Traill, there is a lending library of books on composition and other academic skills.

Students who would like the response of an instructor at any point during the essay-writing process – on reading, research, drafting, or revision – or those who seek a review of grammar, seminar presentation, study skills, or high school mathematics, may phone the Centre's secretary to enrol in a workshop or to arrange an appointment. Many students – even those who complete the diagnostic writing exercise with ease – find that taking the non-credit workshops early in the first year helps them get a good start in their course work.

Two groups of students who might be particularly interested in working with the Centre are students for whom English is a second language and special needs students. These students should make a special effort to visit the Centre early in the year or even before session begins.

The Academic Skills Centre also offers an English for University program for students whose TOEFL scores are between 500 and 550. This is a full-time program to which students who meet all other requirements for attending Trent excepting the language requirement can apply. See the Trent International Program entry or visit our website for more details.

The Centre's Publications Program writes, publishes, and distributes handbooks that assist students in achieving academic success. The Centre currently distributes three books: *Notes on the Preparation of Essays in the Arts and Sciences*, a guide to correct documentation and style; *Thinking It Through: A Practical Guide to Academic Essay Writing*, which covers the writing process and the requirements of an academic essay; and *Clear, Correct, Creative: A Handbook for Writers of Academic Prose*, a process-based approach to style, revision, and word usage. In addition, the Centre has a new series of short, inexpensive booklets, the *Academic Survival Guides*, intended to give students the first word on the academic skills most crucial to their success at university. Centre staff have also written *Making Your Mark: Learning to Do Well on Exams* (now available from Harcourt Brace) which helps students prepare for exams by studying throughout the academic year. For more information on any of these texts, contact the Academic Skills Centre by telephone, facsimile, e-mail or regular mail.

Alumni Association Traill College

Telephone (705) 748-1573

E-mail: alumni@trentu.ca

Fax: (705) 748-1785

Web: www.trentu.ca/alumni

Director: Tony Storey

Studying at Trent University is an exciting and important time in a student's life, but it is just one phase in the lifelong relationship that the Alumni Association fosters and encourages.

Trent's alumni/ae remain informed, interested and involved, long after graduation day. Recent graduates help represent the university to high school students; university committees and boards benefit from alumni participation; Reunion Weekend welcomes alumni back to campus each year; 20 Chapters across Canada and overseas provide opportunities for Trent alumni to meet in their home communities and our magazine, *TrenT*, is provided to alumni and friends around the world three times a year.

Alumni involvement is visible every day at Trent through bursaries, awards, prizes, scholarships, hospitality to new students, special lectures and sponsored events.

Trent's alumni number over 20,000 and their success as liberal arts and science graduates is impressive and diverse. They include a nationally recognized executive search consultant, an award-winning physicist, a federal cabinet minister, a leading Canadian church-woman, a pioneering specialist in Canadian environmental law, an innovative leader in information technology, a doctor committed to international humanitarian causes and several award-winning writers and musicians.

This strong and lasting bond that alumni form for Trent is an indication of the richness of their experiences as students.

Athletic Program

Telephone: (705) 748-1257

Court Bookings/Swim Times: (705) 748-1483

Fax: (705) 748-1447

E-mail: athletic@trentu.ca

Web: www.trentu.ca/athletics

Director: P.S.B. (Paul) Wilson

Trent offers a comprehensive and diversified athletic and recreational program, ranging from organized inter-university competition to completely informal recreational activities.

Located on the campus are rowing facilities, a full-size lighted playing field, tennis courts, a gymnasium, a 25-metre pool, squash courts, a weight room and fitness centre, saunas and locker facilities.

Inter-university and intramural competition is organized in several sports, including water polo, basketball, cross-country running, fencing, hockey, rowing, rugby, skiing (nordic), soccer, softball, squash, flag football, field-hockey, volleyball, swimming, curling, golf and synchronized swimming. A complete schedule of aquatic leadership and fitness programs is available.

Trent University is a full member of Ontario University Athletics, and the Canadian Inter-university Athletic Union.

The staffing requirements of Trent's athletic programs and facilities generate a significant number of student employment opportunities.

Bookstore 1720 West Bank Drive, Peterborough, ON K9J 7B8

Telephone: (705) 748-1111

E-mail: bookstore@trentu.ca

Fax: (705) 748-5802

Web: www.trentu.ca/bookstore

Manager: Barbara Reeves

Trent operates a bookstore located at the Symons Campus, to the left of the Bata Library under the Podium, steps away from the main bus stop. The bookstore accommodates a wide range of needs and interests not only for Trent students, faculty and staff, but for the Peterborough community in general.

The bookstore maintains a collection of bibliographical tools which students and staff are encouraged to use. Special orders can be placed at any time providing the books are in print. The store aims to be more than a mere outlet for textbooks and supplies. A wide range of general interest books are also carried along with software, clothing, gifts and a variety of food and beverage items.

There are 3-4 textbook "buy backs" held throughout the year, as well as daily buy backs providing the textbooks are being readopted. The text buyer is available for such inquiries.

Textbook returns:

New textbooks can be returned under the following conditions:

- Always with a receipt.
- Books have not been written in or underlined.
- Shrink-wrapped "sets" are returned with all of the enclosures.
- If you've dropped a class a full refund is available, with proof of class being dropped, for one month after classes begin or the end of the drop-add period, whichever is first. (Your calendar lists the pertinent dates.)
- Other purchases may be returned for a full refund within 7 days of the first day of classes or within two days of your purchase after that date.
- Used book buying guide prices are always available if your return is outside these guidelines.
- Please be careful before opening shrink-wrapped sets. Many contain electronic media, and are only returnable if they are defective.
- Coursepacks (reprotexts) are non-returnable.

Bus Service

Trent's Symons Campus is connected to the two downtown Colleges by two bus routes operated by the City of Peterborough. The City's George Street North bus runs every half-hour during the day. The Trent Express, operated specifically for students and other members of the Trent community during the Fall and Winter sessions, runs every 20 minutes during the day on weekdays (more frequently at peak hours) and hourly in the evening. The compulsory transportation fee paid by full-time students entitles the

student to a bus pass which is honoured on all City of Peterborough bus routes, giving Trent students free access to the entire city from the Labour Day holiday in September to the Victoria Day holiday in May each year. Please see section on Ancillary Fees, for information on the compulsory transportation fee. Part-time students may purchase a student bus pass if they meet certain criteria.

Child Care Centre Symons Campus

Administrator: Sandra Robinson

Telephone: 743-2811

Web: www.trentu.ca/org/tccc

The Trent Child Care Centre is a non-profit organization offering care to 52 children aged from six weeks to 5 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 and Social 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.

Computing Services Department

Telephone: (705) 748-1121

E-mail: cts-www@trentu.ca

Fax: (705) 748-1122

Web: www.trentu.ca/csd

Assistant Director of Information Services (Computing): Dave Binkley (705) 748-1121 ext. 168

A wide variety of computing and communications resources are available to members of the Trent academic community in support of their research, learning, teaching and scholarship. These include e-mail, various computer languages, applications and computer-based services on both VMS and UNIX time-sharing facilities as well as micro-computer labs and UNIX workstations.

Some of these resources are accessible only through personalized computer accounts. Accounts with Internet access are available to all faculty, staff and students through Computing Services and to alumni through the Alumni and Development Office.

The use of Trent's computer facilities is available to all Trent students, staff and faculty free of charge. Use of the facilities is a privilege, and users must comply with the "Trent University Computer-User Code of Ethics."

Conference Services Lady Eaton College

Telephone: (705) 748-1260

E-mail: conferences@trentu.ca

Fax: (705) 748-1209

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 for students both during the academic year and through the Summer months.

Accommodation for visiting students and their families are available from May to August.

Counselling and Careers Centre Blackburn Hall

Telephone: (705) 748-1386

E-mail: CandC@trentu.ca

Fax: (705) 748-1563

Web: www.trentu.ca/careers

Counselling Co-ordinator: Maxine Mann

Centre hours are 9 a.m. to noon and 1 p.m. to 4 p.m. Monday to Friday.

The Counselling and Careers Centre is a resource provided by the University to promote the personal and career development of Trent students. It provides the following services:

Personal Counselling

Many students seek support with specific concerns related to family and peer relationships, self-confidence, stress, loneliness, or sexuality. Other students come to the centre with less clearly defined difficulties such as low motivation, generalized anxiety, or difficulty sleeping, all of which can seriously interfere with academic performance and one's general sense of emotional well-being. Through interviews and goal-setting, counsellors can help students to more fully understand themselves and their concerns. 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 relief.

Career Information and Counselling

The centre maintains a library containing current Calendars from a variety of Canadian universities and community colleges and professional schools. Information on career planning, job search, government employment programs, and work and study abroad programs. Individual and group career counselling is also available. This aspect of the department also coordinates employment opportunities for students and graduates through Campus WorkLink.

Campus Worklink

An internet-based job posting site for university students and graduates is now available at Trent University. The Counselling and Careers Centre has your 'password' to hundreds of recruitment campaigns, internships, full-time, part-time, summer and volunteer positions advertised daily. Add your profile (resumé) to the database to link you to employers and give you access to all the features of Campus WorkLink.

Library

Telephone: (705) 748-1125

Fax: (705) 748-1126

Web: www.trentu.ca/library

University Librarian: Tom Eadie, M.A. (QUEEN'S), M.L.S. (WESTERN ONTARIO)

Librarian Emeritus: A. McCalla, B.A., B.L.S., M.L.S.; J.A. Wiseman, M.PHIL., Ph.D., F.L.A.

D. Binkley, B.A., (TORONTO), M.L.S. (WESTERN ONTARIO), M.A. (WATERLOO); B. Dodge, B.A., M.A. (TORONTO), ED.D. (TORONTO); K. Field, B.MUS.ED. (DALHOUSIE), M.L.S. (UBC) (*On leave 2000-2001*); M.W. Genoe, B.A., M.A. (WATERLOO), M.L.S. (WESTERN ONTARIO), M.PHIL., (WATERLOO), M.P.A. (QUEEN'S); J. Luyben, B.A., M.L.S. (WESTERN ONTARIO); J. Millard, B.A. (McMASTER), M.L.S. (TORONTO), Dipl.Cult.Con. (VICTORIA), M.A.(T) (McMASTER); M. Scigliano, B.A. (TORONTO), M.L.S. (DALHOUSIE), M.A. (CONCORDIA) (*On sabbatical July - December 2000*); B. Znamirowski, B.A. (QUEEN'S), M.L.S. (DALHOUSIE).

The University's Thomas J. Bata Library is adjacent to the University Court and is the focal point of the Symons Campus. Bright, spacious and air-conditioned, it provides ideal study and research facilities for all student and staff requirements. The building also houses a number of administrative offices.

An automated library system, the Trent University Online Public Access Catalogue (TOPCAT), is a valuable resource serving the growing needs of all those using the library facilities available at Trent University. Durham College in Oshawa, Sir Sandford Fleming College and Peterborough Public Library are all connected to and/or accessible from Bata Library. As well, access to a variety of electronic periodical indexes and electronic journals is provided. Re-automation of the library is underway with the implementation of a web-based online catalogue.

The library contains a collection of more than 490,000 volumes, 280,000 micro-forms, 2,200 current serials subscriptions, 108,000 maps and air photos, and 200,000 government publications. Most material is available in open stacks and all members of the University are free to browse through the entire collection. The library provides access to a growing number of electronic indexing and abstracting services. A wide range of innovative library instruction programs are offered. Student use of the library has been extensive, with one of the highest per capita circulation rates in Canada.

A number of special collections have been formed and, to support the University's interest in Canadian studies, the library has concentrated on the acquisition of Canadiana. This development has been augmented by such additions as the G.M. Douglas Arctic Collection, the Shell Canada Fund for Canadian literature, the Floyd Chalmers Collection of Canadian Explorations and the A.J.M. Smith Collection of Canadian poetry and literature. Other specialized collections include the Holm Collection of Children's Literature, the Ernest Thompson Seton Collection, the Robert L. Hunter Canadiana Collection, the Trevor Lloyd Collection, and the Walter A. Kenyon Collection. Transcripts of the Royal Commission on the Economic Union and Development Prospects for Canada (MacDonald Commission) and the transcripts of the Mackenzie Valley Pipeline Inquiry are also valuable resources.

The Feinberg Collection of Whitman and Twain material is on permanent loan from the Peterborough Public Library.

The Trent University Archives preserves non-current records of Trent University and historical records of the Trent Valley area. There are over 2,500 cubic feet of textual records – private, family, business and institutional papers – as well as 15,000 photographs, maps and other graphic items. Holdings are particularly strong in literary records, native studies records, World War I materials and business papers. There are several collections which provide primary research materials relating to women's studies. Most of the collection is unrestricted to researchers and provides excellent support for many academic programs at Trent University.

The Trent University Library of Religion, incorporating the Bishop Webster Collection, provides source material for scholars in religion, philosophy, history and related subjects. Extensive support from the Robert Markon Foundation has been used to establish an art book collection. The Donner Foundation has provided substantial assistance in building up library resources in support of native studies while the Messecar Foundation has provided direct support for Canadian studies. Additional support has been provided to build the Japan Foundation Collection.

The Government Publications, Map and Data Department is a major resource for all students. The department serves as a regional depository for several governments including the federal government of Canada and provincial government of Ontario. Services include a Data and Image Laboratory which offers a growing collection of electronic information including numeric databases, textual databases, digital maps and atlases, statistical and mapping software. Other important collections include parliamentary and legislative papers; statutes and regulations and other Canadian legal tools; first ministers conference papers; royal commission reports and transcripts; an extensive collection of Statistics Canada products. Some important cartographic resources include Canadian and international atlases and gazetteers; topographic maps; thematic maps; Ontario base maps; a travel map collection; as well as maps and aerial photography of the Peterborough/ Kawartha region.

The University library is augmented by an extensive inter-library loans network through which materials are borrowed from all parts of North America. The Inter-University Transit System, combining electronic mail communications and a daily courier service, expedites the delivery of materials between university libraries of Ontario and Quebec. Electronic document requesting from the Canadian Institute for Scientific and Technical Information (CISTI) and the University of Toronto using the GODOT software is also offered.

Audio Visual Services

Telephone: (705) 748-1123

Fax: (705) 748-1124

Web: www.trentu.ca/library

Manager: Bill Hodgson

Audio Visual Services is an academic support department set up to provide audio visual equipment, projectionists, other technical services, and a media library service to the University community. Use of the services is provided free of charge to all academic programs. Organizations and associations that are part of the University community may rent equipment and other services at the rates set by Audio Visual Services and subsidized by the University. External users are charged for all equipment/services at current operating costs. Contact Audio Visual services for information about: distribution of audio visual equipment, film/video bookings - media library, language laboratory operations, audio visual productions.

Off-campus housing service Blackburn Hall

Telephone: (705) 748-1104

E-mail: housing@trentu.ca

Web: www.trentu.ca/housing

From May to September, the University operates a housing office providing a listing service of accommodation available in the community for students requiring off-campus housing. The listings of accommodation can also be accessed year round on the Trent Website at www.trentu.ca/housing.

For further information, contact Jan Fialkowski, Associate Director, Housing and Food Services at 748-1104.

Student Health Services Blackburn Hall

Telephone: (705) 748-1481

E-mail: awalters@trentu.ca

Fax: (705) 748-1563

Web: www.trentu.ca/healthserv

Director: Ann Walters, Reg.N.

Trent University Student Health Service, located in Blackburn Hall, provides professional health care and lifestyle counselling for full-time and part-time students from September through April. The service is closed from May through August. A physician and nurse are available from 9 a.m. to noon and 1:30 to 4:30 p.m. Monday through Friday. Appointments are preferred for all clinics. HIV testing is available.

The University requires all students to carry medical insurance. Any student without insurance is held personally responsible for his/her health care costs. Students from Canada must submit valid provincial Health Card numbers to the Student Health Service. Students from Quebec who seek medical attention will be charged a fee which is usually recoverable through their provincial health plan since Quebec does not participate in a reciprocal billing arrangement. International students must arrange for UHIP coverage prior to registration through the Trent International Program.

The Ontario Ministry of Health recommends that all students attending university/college have documented receipt of routine immunizations (including a single dose of MMR). Mantoux testing for Tuberculosis is also important for Aboriginal Canadians and International students from countries with high levels of tuberculosis. This may be arranged through your family Doctor prior to arrival.

All services are completely confidential.

Students with Special Needs Bata Library, Suite 109

Telephone: (705) 748-1281

E-mail: specialneeds@trentu.ca

TDD (705) 748-1482

Web: www.trentu.ca/sno

Co-ordinator Special Needs: Eunice Lund-Lucas

Within its resources, Trent University endeavours to ensure the accessibility of its campus and programs to all students, including those with special needs. The University has a Special Needs Office, located on the ground floor of the Bata Library building, and a Co-ordinator for Special Needs, who provides support and advocacy on behalf of students with physical, sensory or learning disabilities. Some of the services provided by this office include transcription services for those who are visually impaired or print disabled, assistance with obtaining note-takers for hearing-impaired students, exam invigilation services for students with a variety of special needs, and liaison with faculty members and with support agencies in the community. In addition, the Special Needs Office has available some adaptive technological aids such as a computer equipped with voice synthesizer, optical scanning equipment, computers, reading lamps, portable FM systems, four-track tape recorders and hand-held tape recorders.

Special needs students considering attending Trent are strongly encouraged to contact the Co-ordinator at the time of application since some action may be necessary in advance to accommodate the student's needs. Where appropriate, for example in the case of a learning disability, formal diagnosis and assessment of the condition will be required. Normally this would include a report prepared by a registered psychologist within the past three years. In all cases early identification of needs is extremely important.

Students with mobility impairments are strongly urged to visit the campus to determine its suitability to their needs and interests. Most buildings are equipped with ramps and/or elevators to provide access for persons with mobility difficulties.

Students with special needs are also encouraged to become aware of assistance that is available through various private and public agencies. For example, hearing-impaired students from Ontario may be able to get financial assistance for note-takers or tutors from Educational Support Services of the Canadian Hearing Society while students requiring adaptive technology may obtain partial funding from the Assistive Devices Program of the Ontario government. Students from other jurisdictions who have special needs should investigate the availability of assistance through such agencies in their home province or country.

The Special Needs Office also co-administers with the Financial Aid Office the Ontario Bursary for Students with Disabilities for eligible students who incur disability-related educational expenses. Applications for these bursary funds are available in September of each year.

Trent International Program (TIP)

(See *International educational opportunities*)

ACADEMIC REGULATIONS

Course Assessment

Course Credits

Trent University offers single, double and half courses. In the calculation of degree requirements these are equivalent to single, double, and half-credits respectively. Double courses are identified by the suffix "D" and half courses by the suffix "H."

Students are granted credit for every course for which a passing final grade has been assigned, with the following exceptions:

- 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

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

Grading Criteria

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

- in-term oral and written work
- in-term or mid-year tests or examinations
- final examinations

Normally, at least 25 % of the grade in courses extending over the Fall and Winter sessions is based on work done in the Fall Session. 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 stating the method of assessment and the grading scheme.

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

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

Final Examinations and Mid-year Tests

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

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

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

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

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

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

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

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

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

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

Mid-year Review

A mid-year review progress report summarizing academic performance is sent to all students early in the Winter session. Academic advisers and senior tutors also receive copies. The reports are intended 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 Grades

Grades are official thirty days after they have been released by the Registrar's Office. 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 days have passed.

Grade Reports and Transcripts

Grade reports are provided to students upon completion of each session.

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

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

Difficulties with the Completion of Course Work

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

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

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. Aegrotat standing exempts students from writing the final examination in a course. 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. 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 and Petitions through the Senior Tutor, 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. 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 three categories of academic standing: good standing, probation, and academic suspension. 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 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 on probation if their cumulative average is 50 – 59.9 %, or if they are returning from academic suspension. If their cumulative average is 60 % or higher upon the next assessment, probation is lifted. Otherwise probation continues as long as the session average is 50 % or higher.

Academic Suspension

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

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

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 enroll in a limited number of courses or a change in their status from suspension to probation. If students are not satisfied with the result of their appeal or if the Senior Tutor judges that the case requires a wider discussion, the appeal may be forwarded to the Committee on Undergraduate Standings and Petitions.

Recognition of Academic Excellence

To encourage and reward academic excellence, the University offers a number of in-course scholarships, prizes, and medals (see Financial assistance and awards).

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

All graduating students who achieve a 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 Registrar's Office. 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 Registrar's Office
- final examinations

The deadlines for appeals of final grades are:

- March 15 for courses completed in the Fall Session
- July 15 for courses completed in the Winter Session
- September 30 for courses completed in the Summer 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 appeal the regulations to the Committee on Undergraduate Standings and 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 the Bata Library. All decisions of the Special Appeals Committee are final and take effect when issued.

Academic Misconduct

Academic Honesty

All members of the University community share the responsibility for the academic standards and reputation of the University. Academic honesty is a cornerstone of the development and acquisition of knowledge. Academic honesty is a condition of continued membership in the University community.

Academic Dishonesty

Academic dishonesty, like other forms of dishonesty, is misrepresentation with intent to deceive or without regard to the source or the accuracy of statements or findings. Academic dishonesty, in whatever form, is ultimately destructive of the values of the University. Scholarly integrity is required of all members of the University.

Policy on Academic Misconduct

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

Plagiarism

While scholarly work often involves reference to the ideas, writings, and data of other scholars, it is intellectually dishonest to present the work of others without explicitly and clearly giving them credit and appropriate reference. Plagiarism is a failure to indicate the ownership of the ideas or of the words of another author by, for example, not using quotation marks and/or appropriate citation when rewriting the words of a source.

Cheating

Cheating is dishonest or attempted dishonest academic conduct during tests or examinations or in the preparation of any other course work. Some common examples are:

- submitting original student work for credit in two or more different courses without the prior agreement of the instructors involved
- bringing materials into an examination or test which have not been authorized by the instructor
- impersonating another individual for an examination or test
- copying from another individual or allowing another student to copy from your test, assignment or examination paper
- communication in any way with another student during a test or examination
- presenting work of another individual as one's own
- purchasing from, or selling to, another any piece of work for submission, and facilitating the selling and purchasing of such material
- submitting any purchased material as one's own work
- falsification of results in laboratory experiments and research assignments

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 reprimand to expulsion from the University. Penalties greater than an F grade in a course will be imposed only by the Dean of Arts and Science. The application of penalties will be overseen by the Registrar. In deciding on the appropriate sanction to be imposed for an act of academic misconduct, 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 act in question was an isolated incident or part of repeated acts of academic dishonesty
- any other mitigating circumstances

Procedures

Academic offences will normally be dealt with, in the first instance, by the instructor. If the matter is of a grave nature and a formal accusation is to be made, the instructor will report the matter to the Department Chair who, after reviewing the evidence, will inform the student in writing of the charge and the evidence on which the charge is based. The student will be given two weeks from the date of the letter to respond either in writing or in person. If the student fails to respond within this time period, the student will be informed in writing of the penalty that the offence has incurred and also that a notice of the charge has been placed in their file, which shall be maintained in the office of the Dean of Arts and Science. Repeated offences may incur additional penalties beyond those imposed by the Chair at the discretion of the Dean of Arts and Science. Any student found in violation of plagiarism regulations or other academic misconduct may appeal the ruling and the penalty imposed. Appeals against the ruling of a Department Chair will be to the Dean. Appeals against the ruling of the Dean of Arts and Science will be to the Special Appeals Committee, whose decision will be final.

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 Registrar's Office. The Registrar's Office will assess whether the students are enrolled in the courses required to complete the academic requirements for their degree, and will inform the students by letter of the result of this assessment. A fee is charged for late applications. See the *University Diary* for deadlines.

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

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

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

Petitions and Appeals

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

The table below summarizes the procedures for petitions and appeals, indicating the appropriate situation for each ("why"), the persons responsible for dealing with them ("who"), and the deadlines for submission

("when"). It is intended *only* as a convenient summary and should not be regarded as official; before pursuing any of these options, students should consult the appropriate section of the calendar where the official procedures and requirements are laid out in full.

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

Why	Who	When
Petitions Concerning Incomplete Work		
• Incomplete Standing (see p. 77) You will be unable to complete your course work by the end of term.	Course Instructor (with the approval of the Chair)	before department or program deadline (if there is one) but in any case before submission of final grades
• Aegrotat Standing (see p. 78) You will be unable to write the final examination.	Course Instructor	normally before final examination
• Late Withdrawal (see p. 78) You have been unable to complete your course work, and it is too late for withdrawal without academic penalty.	1. Senior Tutor 2. Committee on Undergraduate Standings and Petitions (if necessary)	after date for withdrawal without academic penalty but normally before the end of the academic session

Appeals of Grades and Regulations

- **Term Work** (see p. 79)

You wish to query a grade in a term assignment or test.

1. Course Instructor
2. Chair (if necessary)

before department or program deadline (if there is one) but in any case before submission of final grades

- **Final Grades** (see p. 79)

You wish to query a grade in a final examination or in term work which was not returned to you before the submission of final grades.

Registrar's Office

see deadlines in calendar (p. 79)

- **Academic Regulations** (see p. 79)

You wish to query certain academic regulations which have caused you undue hardship.

Committee on Undergraduate Standing and Petitions (through Senior Tutor)

see deadlines in calendar (p. 79)

Appeals of Academic Suspension (see p. 78)

You have discussed with your Senior Tutor the problems leading to your academic difficulties and the appropriate remedial actions, and you wish to have your academic suspension reduced to partial academic suspension or to probation.

1. Senior Tutor
2. Committee on Undergraduate Standings and Petitions (if necessary)

before beginning of next academic year

Appeals of Penalties for Academic Misconduct

(see p. 80)

You wish to have a penalty for academic conduct (ranging from a reprimand to expulsion from the University) withdrawn.

Chair, or
Dean of Arts and Science (if Chair involved), or
Special Appeals Committee (if Dean involved)

within 4 weeks of imposition of penalty

Special Appeals (see p. 79)

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 encourages students to plan a program leading to an Honours degree. The Honours degree is the basic qualification for entry to graduate programs and generally enhances employment opportunities. The University offers the following Honours and General Degree programs:

Honours

- Bachelor of Arts
- Bachelor of Science
- Bachelor of Business Administration

General

- Bachelor of Arts
- Bachelor of Science

Requirements for all Bachelor's degrees

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			Business	General	
	Arts and Science	Arts and Science	Arts and Science	Administration	Arts and Science	
7. total credits required	20	19.5	19	20	15	see individual programs for total credits in Honours program
8. minimum cumulative average required in Honours program	65	65	65	70*	n/a	*see Administrative Studies for details
9. minimum credits required beyond the 200-level	7	7	7	7	4	in some programs 200- and 300-level courses are equivalent
10. maximum credits unsuccessfully attempted in Honours program	6	6	6	6	n/a	includes D grades not for credit and F grades
11. maximum credits allowed in a discipline	13	12.5	12	*	8	*see Administrative Studies for details
12. maximum credits which can be required in each discipline of a joint-major	8	8	8	8	6	

NOTE: 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 minimum 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.

Requirements for a Bachelor of Science degree

Some subjects (see list A) lead only to a B.Sc. degree. Other subjects (see list B) lead either to a B.A. or a B.Sc. depending on the courses taken. For subjects in list B students must indicate on the *Application for Graduation* form if they wish to be awarded a B.Sc.:

A

Biochemistry

Biology

Chemical Physics

Chemistry

Computing and Physics

Environmental Chemistry

Mathematics

Physics

B

Anthropology

Computer Science

Computer Studies (joint-major only)

Economics

Environmental and Resource Science

Geography

Psychology

- one credit in mathematics required for all Bachelor of Science degrees
- for subjects in list B, 13 additional science credits required for the Honours Degree, 10 for the General (see individual department and program entries for science courses)

Requirement for a minor

Students who have fulfilled the requirements for a single-major Honours degree may apply to the Registrar's Office 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.

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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, and the second digit usually indicates an area of study within a discipline. Half-courses are indicated by the suffix H, indicating courses taught in the Fall session, the Winter session, or throughout the year. Half-courses equal a half credit. Full courses equal one credit. Any two half-courses equal one full course for credit purposes.

Animal Care Course

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

ADMINISTRATIVE STUDIES

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Fax: (705) 748-1409

Web: www.trentu.ca/adminstudies

Director of the Program

J. Muldoon, B.Sc. (BROCK), M.A. (GUELPH), Ph.D. (McMASTER)

Professor Emeritus

I.D. Chapman, B.Sc. (LIVERPOOL), M.A. (TORONTO)

Professor

B. M. Patterson, M.A., M.L.S. (WESTERN)

Associate Professors

B. Ahlstrand, B.A. (TORONTO), M.Sc. (L.S.E.), D. PHIL. (OXFORD) (*on leave Fall session*); J. Bishop, B.A. (NEW BRUNSWICK), M.A., M.B.A. (McMASTER), Ph.D. (EDINBURGH); K. Campbell, B.A. (TRENT), M.B.A. (TORONTO); D. Newhouse, (Onondaga) B.Sc., M.B.A. (WESTERN ONTARIO); M. Quaid, B.A. (McGILL), M.Sc. (L.S.E.), D. PHIL. (OXFORD) (*on leave Winter session*).

Conjoint Associate Professor

R. Blackmore, B.Sc. (BIRMINGHAM), M.B.A. (WESTERN ONTARIO), C.A.

Adjunct Faculty

R. Beninger, B.A. (TRENT), LL.B. (OTTAWA), LL.M. (LONDON); R. Taylor, B.A. (TRENT), LL.B. (QUEEN'S)

Associated Faculty

Computer Studies, J.W. Jury; *Economics*, M. Arvin, D. Curtis, J. Muldoon; *History*, D. McCalla, *Mathematics*, E.A. Maxwell; *Political Studies*, R. Paehlke; *Sociology*, P. Bandyopadhyay, C. Huxley.

The Administrative Studies 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

- *Administration 105*, or *100H* and *101H* are prerequisites for all upper level courses in Administrative Studies.
- For the minor in Administrative Studies, see below.
- The Administrative Studies Program has introduced revisions to degree requirements.

The new requirements are set out below. Students who entered the program prior to September 2000 should consult with the Administrative Studies Program office for information about course requirements.

Bachelor of Business Administration Degree

- The Administrative Studies Program offers a single-major Honours degree and a joint-major Honours degree. There is no General degree.
- For the Emphasis in Native Management and Economic Development, see p. 210.
- Students entering the program are strongly encouraged to have completed a secondary school senior level mathematics course in good standing.
- *Politics 100* or *Sociology 100* is highly recommended for Year 1 of the program.
- To remain in the program, students must maintain a cumulative average of B- (70 %) in courses completed (excluding electives). Students who are unable to maintain a B-average may transfer to a B.A. or B.Sc. program in another discipline, provided they can make up any degree requirements for a major.
- Students transferring into the program from another university or Community College will have their transcript assessed by the Registrar's Office for course credit transfer. Students transferring into the program from another department or program should consult with the Director to confirm their course of study.
- Students entering the fourth year of their program are encouraged to review their course selection to ensure that all program requirements are met.

The single-major Honours program consists of 20 credits

- Minimum of 10.5 credits in Administration including:

Year 1

- *Administration 105*, or *100H* and *101H*, *102*, *Economics 101H* and *102H*
- two additional credits
- *Politics 100* or *Sociology 100* highly recommended

Year 2

- *Administration 202H*, *222H*, *223H*, *250*, *Administration-Economics 220H* and *225H*
- 1.5 additional credit

Year 3

- *Administration 310H*, *330H*, *350*
- three additional credits

Year 4

- *Administration 400* and *410*
- three additional credits

The joint-major Honours degree

- Minimum of seven credits in Administration including:
 - *Administration 105*, or *100H* and *101H*, *102*, *202H*, *22H*, *250*, *310H*, *330H*
 - *Administration 400* or *410*
 - *Economics 101H*, *102H*

Minor in Administrative Studies

- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Registrar's Office for a minor in Administrative Studies if they have successfully completed the courses listed below.
- No course in a student's major subject may be counted towards a minor in Administrative Studies.
- Minimum of five credits in Administration including:
 - *Administration 100H*, *101H*, *102* and *250*
 - one 300- or 400-level Administration credit
 - one additional credit in Administration

Please consult the academic timetable to determine which of the courses listed will be offered in 2000–2001.

Administration 100H – Managerial communications: micro level

The course examines the theory and practice of management communications with particular emphasis on interpersonal communications (ie. written, verbal, and electronic). The course stresses a strategic approach to interpersonal communication, management and analysis. The course focuses on the “micro” (ie. individual and group) level of analysis. Excludes *Administration 105*.

Administration 101H – Managerial communications: macro level

The course examines the theory and practice of communications in organizational and network contexts with particular emphasis on emerging models of communications and organization (ie. the virtual and learning organizations). The lectures stress a strategic approach to organizational communications and analysis. The course focuses on the “macro” level of analysis (ie. departments, networks, and other intra-organizational transactions). Excludes *Administration 105*.

Administration 102 – Fundamentals of financial accounting (formerly AD201H)

An introduction to the basic concepts and principles underlying financial accounting and to the practices followed in the preparation of financial records and statements required for public reporting. Problems related to different types of business and to the various legal forms of business are considered. Open to first-year students only. Excludes *Administration 201H*.

Administration – Native Studies 190 – Introduction to management and management decision-making in contemporary aboriginal organizations

The course examines the basic tasks, responsibilities, and practices of management in aboriginal and non-aboriginal organizations and by aboriginal managers.

Economics 101H – Introductory microeconomic analysis (See Economics.)

Economics 102H – Introductory macroeconomic analysis (See Economics.)

Administration 201H – 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 records and statements required for public reporting. Problems related to different types of business and to the various legal forms of business are considered. Open to students enrolled prior to September 2000.

Administration 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: *Administration 102* or *201H* or by permission of the instructor.

Administration – Economics 220H – Introduction to statistics for economics and management (See Economics.)

Administration 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: Open to any second year student or by permission of the instructor.

Administration 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, performance appraisal and compensation. Prerequisite: *Administration 222H* or equivalent or permission of the instructor.

Administration – Economics 225H – Introduction to mathematics for economics and management (See Economics.)

Administration 250 – Organization theory

An introduction to organizational theory and an examination of specific organizations. Structure, process, environment, and other aspects of organizations are approached through multiple-frame analysis. Prerequisite: Open to any second year student or by permission of the instructor.

Administration – Native Studies 272

This course looks in general at the issues affecting organizational behaviour. There is a special focus on the performance, aboriginal character, and people management of contemporary aboriginal organizations. *Native Studies 100* and *Administration/ Native Studies 190* recommended. Lecture and seminar weekly.

Computer Studies 261H – Information systems for business and government.

(See Computer Studies.)

Computer Studies 262H – Structured systems analysis and design

(See Computer Studies.)

Administration 310H – Introduction to marketing (Part I)

This course examines the nature of the market-place, 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. Open to any second year student or by permission of instructor.

Administration 315H – Introduction to marketing (Part II): advertising and promotion

This course, a continuation of *Administration 310H*, focuses on sales, advertising and the media, and sales promotions. Students are invited to create independent projects, which may involve work with a corporation or organization. Prerequisite: *Administration 310H*.

Administration 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. Prerequisites: *Administration 102* or *201H* (or other accounting deemed sufficient by the instructor).

Administration 325H – The legal environment of management

The course will direct itself to the legal limits within which management operates and the laws with which business decision-making must comply. The use of law for protection of the competitive marketplace, of the consumer and of the business person will be reviewed and explained through the primary sources of law: cases and statutes. Prerequisite: *Administration 250*, or permission of the instructor.

Administration 330H – Business and organizational ethics

A new course commencing in 2002 – 2003.

Administration – Sociology 333H – Social organization and bureaucracy

An overview of different approaches to the analysis of complex organizations including classical theories of bureaucracy, the managerial tradition and perspectives drawn from contemporary sociology. Selected case studies are examined with special emphasis on the analysis of the modern business enterprise. Prerequisite: *Sociology 100* or *Administration 250* or permission of the instructor.

Administration 340 – Entrepreneurship and small business

Students learn about the challenges facing a small business within the Canadian social, economic, political and regulatory environments. Prerequisites: *AD 102* or *201H* or equivalent; *AD 310H* and *315H* strongly recommended.

Administration 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. One lecture and one hour lab weekly. Prerequisite: *Administration 105* or *100H* and *101H*, *Administration 222H* or permission of the instructor.

Administration 350 – Managerial planning and control

The processes and problems of planning and control with particular attention to budgeting. The course will focus critically on traditional and innovative budget procedures for organizations in both the private and the public sectors. Emphasis will be placed on the vital role of the budget process in management. Prerequisite: *Administration 102*, or *201H* and *202H*, and *Administration 250*.

Administration 400 – Strategic management

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

Administration 410 – Management thought

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

Administration 420 – Business ethics

Examines the ethical issues encountered in business 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. degree program; or third-year standing with permission of the instructor.

Administration 430 – Workplace diversity

This course addresses some of the workplace problems and opportunities that arise from the demographic diversity of the 1990s and beyond. The course will also examine the human resource implications of conducting business on an international basis. Prerequisite: *Administration 223H* or equivalent or permission of the instructor.

Administration 482, 483H – 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. 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."

Administration 490 – Reading course

By individual arrangement, normally before early registration. Prerequisite: permission of the instructor.

Administration 495 – Special topics

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

Administration 499 – Research project

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

ANCIENT HISTORY AND CLASSICS

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Professor and Chair of the Department

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Associate Professor

D. F. R. Page, B.A., DIP. ED. (SHEFFIELD)

Adjunct Faculty

M.R. Boyne, B.A. (TRENT), M.A. (TORONTO); J. Tinson, B.A. (TRENT), M.A. (QUEEN'S)

The department of Ancient History and 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 and 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; 24 meetings) require consultation with the department by March of the preceding year and are offered only if faculty are available. Students may take more than one such course in one year or in their overall program.
- 400-level courses are normally limited to students in the fourth year of the Honours program.
- Students may take both *Classical History 100* and *Classical History 201* in first year.
- *Classical Literature 200* may be counted as fulfilling the university requirements for a 300-level course.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Registrar's Office for a minor in Classical History, in Classical 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 Classical History with a minor in Greek), but no course in the major may be counted towards the minor as well.
- For the most complete and up-to-date information on the Ancient History and Classics department – courses, faculty, special events, internet resources, etc. – check the Ancient History and Classics department website at <http://trentu.ca/classics>.

Bachelor of Arts programs in Ancient History and Classics

- The department offers four majors, in Classical History, Classical Studies, Greek, and Latin.
- For the purposes of University regulations concerning the maximum number of credits in a single discipline (12 for Honours, eight for General), Classical History, Classical Studies, Greek, and 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 and 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.

Classical History

Notes

- One credit in Classical Civilization, Greek, Latin, Classical Literature, *History 205*, *Philosophy 210* may be substituted for a non-prescribed credit in Classical History.
- Students in the Honours program in Classical History are strongly advised to include one credit in Latin or Greek.

The single-major Honours program consists of 19 credits. At least nine credits in Classical History, including:

- *Classical History 100*, *201*, and *490*
- *Classical History 410* or *420*
- two credits at the 300-level
- three additional credits

The joint-major Honours program consists of 19 or 19.5 credits (depending on the joint-discipline). At least seven credits in Classical History, including:

- *Classical History 100*, *201*, and *490*
- *Classical History 410* or *420*
- two credits at the 300-level
- one additional credit

The single-major General program consists of 15 credits. At least six credits in Classical History, including:

- *Classical History 100* and *201*
- two credits at the 300-level
- two additional credits

The joint-major General program consists of 15 credits. At least five credits in Classical History, including:

- *Classical History 100* and *201*
- two credits at the 300-level
- one additional credit

Classical Studies

Notes

- For Classical Studies majors, two of *Classical Civilization – Anthropology 224H*, *225H*, *227H*, *228H*, and *Classical Civilization – Anthropology – Geography 223H* may be counted as one credit 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.
- Students in the Honours program in Classical Studies are strongly advised to include one credit in Latin or Greek.
- *Philosophy 210* may be substituted for a non-prescribed credit in Classical Studies.

The single-major Honours program consists of 19 credits. At least 10 credits within the department, including:

- *Classical Civilization – Women's Studies 231H* and *232H*
- one credit in Classical Literature at an upper level
- one credit from *Classical Civilization – Anthropology 224H*, *225H*, *227H*, *228H*, or *Classical Civilization – Anthropology – Geography 223H*
- seven additional credits within the department
- at least two of the credits within the department at the 300-level and at least two at the 400-level

The joint-major Honours program consists of 19 or 19.5 credits (depending on the joint-discipline). At least eight credits within the department, including:

- *Classical Civilization – Women's Studies 231H* and *232H*
- one credit in Classical Literature at an upper level
- one credit from *Classical Civilization – Anthropology 224H*, *225H*, *227H*, *228H*, or *Classical Civilization – Anthropology – Geography 223H*
- five additional credits within the department
- at least one of the credits within the department at the 300-level and at least two at the 400-level

The single-major General program consists of 15 credits. At least seven credits within the department, including:

- *Classical Civilization – Women's Studies 231H and 232H*
- one credit in Classical Literature at an upper level
- one credit from *Classical Civilization – Anthropology 224H, 225H, 227H, 228H*, or *Classical Civilization – Anthropology – Geography 223H*
- four additional credits within the department
- at least two of the credits within the department at the 300-level

The joint-major General program consists of 15 credits. At least five credits within the department, including:

- *Classical Civilization – Women's Studies 231H and 232H*
- one credit in Classical Literature at an upper level
- one credit from *Classical Civilization – Anthropology 224H, 225H, 227H, 228H*, or *Classical Civilization – Anthropology – Geography 223H*
- two additional credits within the department
- at least one of the credits within the department at the 300-level

Greek

Notes

- The availability of majors in Greek is subject to departmental staffing conditions. Interested students should check with the chair of the department as soon as possible.
- Only one credit in New Testament Greek may be counted toward a major in Greek.

The single-major Honours program consists of 19 credits. At least eight credits in Greek, including at least two credits at the 400-level. The program must also include one credit in Greek history.

The joint-major Honours program consists of nine or 19.5 credits (depending on the joint-discipline). At least seven credits in Greek, including at least two credits at the 400-level.

The single-major General program consists of 15 credits. At least six credits in Greek.

The joint-major General program consists of 15 credits. At least five credits in Greek.

Latin

Notes

- The availability of majors in Latin is subject to departmental staffing conditions. Interested students should check with the chair of the department as soon as possible.

The single-major Honours program consists of 19 credits. At least eight credits in Latin, including at least two credits at the 400-level. The program must also include one credit in Roman history.

The joint-major Honours program consists of 19 or 19.5 credits (depending on the joint-discipline). At least seven credits in Latin, including at least two credits at the 400-level.

The single-major General program consists of 15 credits. At least six credits in Latin.

The joint-major General program consists of 15 credits. At least five credits in Latin.

Please consult the academic timetable to determine which of the courses listed will be offered in 2000–2001.

CLASSICAL HISTORY COURSES**Classical History 100 – The history of Greece, to the decline of the city-states**

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

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

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

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

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

Classical History 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 to modern assessments. Two-hour meetings weekly. Open to students beyond first year. *K.H. Kinzl*

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

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

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

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

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

The Roman world under the Flavians, A.D. 69–96, and during its peak in the second century; the militarization under the Severan emperors and the crisis of the third century; and the new order of Diocletian's tetrarchy. Two-hour lecture weekly, fortnightly seminar. Prerequisite: *Classical History 201*, or with permission of the instructor. *D.F.R. Page*

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

The emergence of Christianity as the state religion under Constantine; the collapse of the Empire in the West and its replacement by Germanic kingdoms; the survival of the Empire in the east and the birth of Byzantine civilization. Two-hour lecture weekly, fortnightly seminar. Open to students beyond first year. Prerequisite: at least one half-course in Classical History or History, or with permission of the instructor. *K.H. Kinzl*

Classical History 390 or 395 – Reading or special topic course

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

Classical History 410 – The Athenian Empire

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

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

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

Classical History 490 or 495 – A reading or special topic course.

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

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

Selected plays of the three major tragedians (Aeschylus, Sophokles, Euripides), and of the two comic poets (Aristophanes, Menander). Lectures will present also the role of drama in classical Greek society. Two lectures weekly, fortnightly seminar. *I.C. Storey*

Classical Literature 200 – Myths of the Ancient Near East and Greece

A course examining the nature of myth from Babylonian epic to C.S. Lewis. Themes may include creation myths; gods and human heroes; women in myth; and the nature of love. Weekly lecture, fortnightly seminar. Open to all students beyond first year. *I.C. Storey*

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

This course will explore both ancient concepts of "fiction" and "fantasy" including the epic (*Odyssey*, *Voyage of Argo*), the novel (*Ephesian Story*), the adventure narrative (*Lucian's A True Story*), the picaresque novel (*Satyricon*), the concept of Utopia, the Atlantis-myth, and the historical novel (*The Alexander-Romance*). Weekly lecture, fortnightly seminar. Open to all students beyond the first year. *I.C. Storey*

Classical Literature 490 or 495

See entry for CL 390/5. A reading or special topic course. *I.C. Storey and staff*

CLASSICAL CIVILIZATION COURSES**Classical Civilization – Anthropology – 220H – Introduction to Egyptian archaeology from the Pharaohs to the Romans**

The course will focus on the methods and achievements of archaeologists and on the art history of Egypt (through an examination of such remains as sculpture, architecture, and vases and of what is known about particular sites) from the period of the Pharaohs, through the Persians and the Greeks to the Romans, with special emphasis on the Pharaohs. Two-hour lecture weekly. Open to all students beyond the first year. *Staff*

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

The developments, innovations, and achievements of the city in the Greek and Roman world from the Bronze Age to the Late Empire. Two-hour lecture weekly. Open to students beyond first year. *Staff*

Classical Civilization – Anthropology 224H – Introduction to classical archaeology

The course will focus on the methods and achievements of classical archaeologists and on the art history of the actual remains (sculpture, architecture, vases) as well as examining particular sites. Two-hour lecture weekly. Open to students beyond first year. *Staff*

Classical Civilization – Anthropology 225H – The Aegean Bronze Age

This course will examine the great civilizations of the Greek world 3000-1000 B.C., with special emphasis on the Minoan (Crete) and Mycenaean (mainland Greece). Attention will be given to archaeological methods and to the physical remains (architecture, vases, sculpture, jewelry). Two-hour lecture weekly. Open to students beyond first year. *Staff*

Classical Civilization – Anthropology 227H – Archaeology of religion and culture

Physical remains from Greek archaic and classical cultural institutions are examined. Topics may include: theatres, sacrifice, pottery, temples, mystery cults, festivals, athletics, and the close examination of particular sites. Two-hour lecture weekly. Open to students beyond first year. *Staff*

Classical Civilization – Anthropology 228H – Archaeology of religion and culture

Physical remains from Roman imperial cultural institutions are examined. Topics may include: housing, trade, aqueducts, temples, imperial cult, early Christianity, provincial administration, public entertainment, and the close examination of particular sites. Two-hour lecture weekly. Open to students beyond first year. *Staff*

Classical Civilization – Women's Studies 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 (feminist, sociological, anthropological, literary). Weekly lecture and seminar. Open to students beyond first year. *Staff*

Classical Civilization – Women's Studies 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 (feminist, sociological, anthropological, literary). Weekly lecture and seminar. Open to students beyond first year. *Staff*

Classical Civilization 390 or 395 – A reading or special topic course

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

Classical Civilization 490 or 495 A reading or special topic course. *Staff*

GREEK AND LATIN COURSES

Greek 100 – Elementary Greek

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

Greek 200 – Intermediate Greek

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

Greek 220 – Epic and tragedy. Prerequisite: *Greek 100* or OAC Greek. *Staff*

Greek 240 – New Testament Greek. Prerequisite: *Greek 100* or OAC Greek. *I.C. Storey*

Greek 390 or 395 A reading or special topic course. *I.C. Storey*

Greek 490 or 495 A reading or special topic course. *I.C. Storey*

Latin 100 – Latin for beginners

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

Latin 200 – Intermediate Latin

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

Latin 220 – Myths and legends of the origins of Rome

As illustrated in the works of Vergil and Livy, writers of the Augustan period. Three hours weekly, including language study. Prerequisite (or co-requisite): *Latin 200*, or permission of the department. *Staff*

Latin 390 or 395 Reading or special topic course. *D.F.R. Page*

Latin 490 or 495 Reading or special topic course. *Staff*

ANTHROPOLOGY

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Professor and Chair of the Department

R.S. Hagman, Ph.D. (COLUMBIA)

Professors Emeriti

R.K. Vastokas, M.A. (TORONTO), Ph.D. (COLUMBIA); E.M. Todd, B.A. (TORONTO), Ph.D. (N. CAROLINA)

Professors

P.F. Healy, B.A. (CALIFORNIA-BERKELEY), M.A., Ph.D. (HARVARD) (*on leave 2000-2001*); H.W. Helmuth, D.Sc., DR. HABIL. (KIEL) (*on leave Winter session*); S.M. Jamieson, B.A. (McMASTER), M.A. (MANITOBA), Ph.D. (WASHINGTON STATE); J.K. So, M.A., Ph.D. (SUNY, BUFFALO); J.R. Topic, M.A., Ph.D. (HARVARD); J. M. Vastokas, M.A. (TORONTO), Ph.D. (COLUMBIA) (*on leave 2000-2001*)

Associate Professors

J. Harrison, B.A. (SASKATCHEWAN), M.A. (CALGARY), D.Phil. (OXFORD); R.D. Powell, LIC. EN HISTORIA (CORDOBA), Ph.D. (McGILL); J. Solway, M.A., Ph.D. (TORONTO); M.J. Tamplin, B.A. (TORONTO), M.A. (LONDON), Ph.D. (ARIZONA) (*on leave Winter session*)

Assistant Professors

S. Hepburn, B.A. (CALGARY, CAMBRIDGE), M.A. (McGILL), Ph.D. (CORNELL); A. Meneley, B.A. (McGILL) Ph.D. (NEW YORK)

Conjunct Professors

J. Awe, M.A. (TRENT), Ph.D., (LONDON); T.J. Brasser, Ph.D. (LEIDEN)

Research Associates

C. Oberholtzer, M.A., (TRENT), Ph.D. (McMASTER)

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 world wide 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, on man and woman alive, the anthropology of everyday life.

Notes

- *Anthropology 100* is a prerequisite for all upper-level courses in Anthropology.
- Students who successfully completed all four of *Anthropology 200, 212, 230, 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.
- Four credits taken in the Fall/Winter session followed by *Anthropology 300*, which is offered only in the Summer session, constitute a five-credit program for a single year's tuition.
- Courses in Anthropology fulfilling University science course requirements for the B.Sc. are marked (Sc) in the individual course descriptions.

Bachelor of Arts and Bachelor of Science programs in Anthropology

- The Anthropology department offers both a B.A. and a B.Sc. degree.
- Students undertaking the single-major Honours program in Anthropology have the option of bypassing *Anthropology 100* if they can demonstrate previous experience of the discipline, have an 80% OAC average or equivalent and include all four of *Anthropology 200, 212, 230 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.

- *Anthropology 332H* and *Anthropology 423H* may be substituted for *Anthropology 230* in fulfillment of all requirements for the major.
- Students in the joint-major program in Anthropology and Comparative Development Studies may substitute *Comparative Development – Anthropology 221* for one of *Anthropology 212, 230, or 240*.
- Students planning to enter graduate school are strongly advised to take *Anthropology 200, 212, 230, and 240*; if they are planning on continuing in archaeology they are strongly advised to take both *Anthropology 310 and 399*.

The single-major Honours program consists of 20 credits. At least 10 credits in Anthropology. The program must include:

- *Anthropology 100* and *200*
- two of *Anthropology 212, 230, or 240*
- *Anthropology 310* or *399*
- four additional credits in Anthropology beyond the 200-level
- one additional credit in Anthropology
- for the B.Sc., 14 science credits in the program as a whole, including one credit in Mathematics, preferably *Mathematics – Statistics 150*

The joint-major Honours program consists of 19.5 or 20 credits (depending on the joint-discipline). At least seven credits in Anthropology. The program must include:

- *Anthropology 100* and *200*
- one of *Anthropology 212, 230, or 240*
- *Anthropology 310* or *399*
- two additional credits in Anthropology beyond the 200-level
- one additional credit in Anthropology
- for the B.Sc., 14 science credits in the program as a whole, including one credit in Mathematics, preferably *Mathematics – Statistics 150*

The single-major General program consists of 15 credits. At least six credits in Anthropology. The program must include:

- *Anthropology 100* and *200*
- two of *Anthropology 212, 230, or 240*
- two additional credits in Anthropology beyond the 200-level
- for the B.Sc., 11 science credits in the program as a whole, including one credit in Mathematics, preferably *Mathematics – Statistics 150*

The joint-major General program consists of 15 credits. At least five credits in Anthropology. The program must include:

- *Anthropology 100* and *200*
- one of *Anthropology 212, 230, or 240*
- two additional credits in Anthropology beyond the 200-level
- for the B.Sc., 11 science credits in the program as a whole, including one credit in Mathematics, preferably *Mathematics – Statistics 150*

Please consult the academic timetable to determine which of the courses listed will be offered in 2000–2001.

Anthropology 100 – Introductory anthropology (Sc)

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

Anthropology 200 – Sociocultural anthropology

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

Anthropology 212 – Archaeology (Sc)

A study of the methods used by archaeologists to recover and analyze their data, and a survey of worldwide technological and cultural evolution from the first human ancestors to the earliest civilizations. Two-hour lecture weekly, one-hour tutorial/lab fortnightly. *M. Tamplin and Staff*

Anthropology – Classical Civilization 220H – Introduction to Egyptian archaeology from the Pharaohs to the Romans (See Ancient History and Classics)**Anthropology – Comparative Development 221 – Agrarian change and food production in a Global Context** (See Comparative Development Studies)**Anthropology – Classical Civilization – Geography 223H – The ancient city** (See Ancient History and Classics)**Anthropology – Classical Civilization 224H – Introduction to classical archaeology** (See Ancient History and Classics)**Anthropology – Classical Civilization 225H – The Aegean Bronze Age** (See Ancient History and Classics)**Anthropology – Classical Civilization 227H – Archaeology of religion and culture (Greek)** (See Ancient History and Classics)**Anthropology – Classical Civilization 228H – Archaeology of religion and culture (Roman)** (See Ancient History and Classics)**Anthropology 230 – Linguistics**

How to develop an understanding of any language through linguistic analysis of sounds, words, and sentences; how languages change and language classification; acquisition of language, language in society, and writing; human vs. non-human forms of communication. No prerequisite. One two-hour lecture weekly, workshop fortnightly.

Anthropology 240 – Biological anthropology (Sc)

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

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

An introduction to the visual arts and architecture of the aboriginal peoples of North America and their development from prehistory to the present. No prerequisite. Three-hour lecture/discussion period weekly.

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

An introduction to methods and techniques of discovery, analysis, and interpretation in a field situation in any one sub-discipline (archaeology, cultural, physical, or linguistic anthropology). Summers only; confirm with the Department Office. Prerequisite: *Anthropology 200, 212, 230, or 240* as appropriate or permission of instructor. (Excludes *Anthropology 211*). Limited enrolment.

Anthropology – Comparative Development 301 – African culture and society

An introduction to contemporary African culture and society, focusing on culture history and indigenous institutions, the impact of colonial rule, and present-day problems of development. Prerequisite: *Anthropology 200, or Comparative Development 200* or permission of instructor. Two-hour seminar weekly. *J. Solway*

Anthropology – Comparative Development 304 – Latin American culture and society

Examination of ethnic and historical foundations of contemporary Latin American societies. Problems of modernization with special emphasis on peasant movements, aboriginal groups, and interethnic relations. Prerequisite: *Anthropology 100, Comparative Development 100* or permission of instructor. Two-hour lecture, one-hour seminar weekly. *D. Powell*

Anthropology – Comparative Development 306 – South Asian culture and society

An exploration of South Asian culture and society (as it exists both on and off the Indian sub-continent) and of how issues of general theoretical interest in anthropology have been addressed in the South Asian cultural context. Particular emphasis will be placed on the Himalayan region. Prerequisite: *Anthropology 200* or permission of the instructor. Three-hour lecture/seminar weekly. *S. Hepburn*

Anthropology 309 – Ethnographic method and theory in cultural anthropology

The course will cover research design, field methods, ethics, styles of ethnographic writing, and on-going critical debates about methodology. Three-hour seminar weekly. Prerequisite: *Anthropology 200* or permission of the instructor. Excludes *Anthropology 309* (Support course for Comparative Development Studies).

Anthropology 310 – Key ideas in archaeology and bioanthropology

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 bioanthropology, such as evolution, race, and ethnicity, and health and disease will also be addressed. Prerequisite: *Anthropology 212* or permission of the instructor. Two-hour lecture weekly, one-hour lab/ seminar weekly. *G. Iannone*

Anthropology 311 – North American culture histories (Sc)

A survey of the aboriginal cultures in North America (excluding Mexico) from the first humans to European contact. Prerequisite: *Anthropology 212* or permission of instructor. Two-hour lecture weekly, seminar fortnightly.

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

A general survey of Old World prehistoric cultural adaptations to changing environments during the Pleistocene, followed by a more intensive study of post-Pleistocene European prehistory, concentrating on recent research to the end of the Neolithic. Prerequisite: *Anthropology 212* or permission of instructor. Two-hour lecture/seminar weekly.

Anthropology 314 – Archaeology, ethnohistory, and ethnography of South America

An examination of native societies of selected areas of South America with an emphasis on the Andean and Amazonian areas. Prerequisite: *Anthropology 100* or permission of instructor. Two-hour lecture weekly, seminar fortnightly. *J. Topic*

Anthropology 315 – Archaeological laboratory procedures

The description and analysis of materials from archaeological contexts including artifacts and natural organic and inorganic remains. Two one-hour lectures weekly and one two-hour lab fortnightly. *M. Tamplin, S. Jamieson*

Anthropology 330H – Language history

Examination of the various ways in which languages may change; techniques for the reconstruction of extinct languages; inquiry into economic, social, and ideological causes of language change. Prerequisite: *Anthropology 230* or permission of instructor. Two-hour lecture/seminar weekly. *R. Hagman*

Anthropology 332H – Language in society

Significance of variations in language use by class, gender, ethnicity, age. Bilingualism, methodology, applied sociolinguistics. Two-hour seminar weekly. Prerequisite: *Anthropology 200* or *230*. *R. Hagman*

Anthropology – Biology 341 – Comparative human osteology and evolution (Sc)

The skull and postcranial skeleton of early and modern humans and non-human primates; bio-archaeological methods of observation, description and measurement of skeletal remains. Prerequisite: *Anthropology 240* or permission of instructor. Two-hour lecture weekly, two-hour seminar in the laboratory weekly.

Anthropology – Biology 344H – Human genetics (Sc)

A survey of genetic principles as applied to the human being with special emphasis on clinical, populational and evolutionary genetics. Prerequisite: *Anthropology 240* or permission of instructor. Two-hour lecture and one-hour seminar in the lab weekly. (Excludes ANBI 343).

Anthropology – Biology 346H – Human growth and adaptation (Sc)

A comprehensive survey of the human life cycle from conception to old age, with special emphasis on theories of growth and adaptation; comparative and evolutionary aspects of growth; anatomy and physiology of pregnancy, prenatal and postnatal development; human adaptation to the environment; biocultural determinants of health; and the aging process. Prerequisite: *Anthropology 240* or permission of instructor. Two-hour lecture and two-hour seminar weekly. (Excludes ANBI 343).

Anthropology – Biology 347H – Primate behaviour (Sc)

Behaviour of non-human primates and their importance for the understanding of human evolution and behaviour. Two-hour lecture and one-hour seminar in the laboratory weekly. Prerequisite: *Anthropology 240* or permission of instructor. (Excludes ANBI 340).

Anthropology 348 – Medical anthropology (Sc)

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

Anthropology – Biology 349H – Primate evolution (Sc)

General biology, systematics, anatomy, and paleontology of non-human primates, including the importance of primates for understanding human evolution. Two-hour lecture and one-hour seminar in laboratory weekly. Prerequisite: *Anthropology 240* or permission of instructor. (Excludes ANBI 340)

Anthropology – Cultural Studies 350 – Modern cultural theory (See Cultural Studies)**Anthropology – Canadian Studies 351 – Art, architecture and society**

Analysis of the visual arts and architecture in cross-cultural perspective. Lectures introduce analytical methods and explore such themes as artist's role in society, art and religion, art as propaganda, cultural creativity. Seminars focus upon Canadian art (Aboriginal and Western); architecture and space; gender issues; painting as communication and representation. No prerequisite. Three-hour lecture/discussion weekly.

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

This course explores the use of computers in anthropological research. Topics include data analysis, using anthropological databases, doing social simulations and the ethnography of human-computer interaction. Prerequisite: Any one of *AN 200, 212, 230, 240* and *Computer Studies 101H* or equivalent. One-hour lecture and two-hour lab weekly.

Anthropology 365H – Archaeological settlement and spatial studies (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: *Anthropology 100* or permission of instructor. Three-hour lecture/lab/seminar weekly. Staff

Anthropology 371H – The Maya (Sc)

Survey of the ancient and modern Maya of Central America. Examines the culture of the contemporary Maya, one of the largest native groups of the Americas, as well as the archaeology of Pre-Columbian Maya civilization. Prerequisite: *Anthropology 212* or permission of instructor. Two-hour lecture weekly. One-hour seminar fortnightly.

Anthropology 399 – The history and theory of anthropological thought

Structured thematically, the course will survey the principle theoretical developments in the discipline. Prerequisite: *Anthropology 200* and one of *Anthropology 212, 230* or *240* or *ANCD 221*. A two-hour lecture weekly and a weekly discussion group. (Excludes AN420). A Meneley and J. Harrison.

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

Students undertake a specific research project and write a thesis of 12,000 to 15,000 words on a well-defined topic. *Anthropology 402* is a double credit in Anthropology. *Anthropology 401* is a single credit applicable to a joint-major thesis. Arrangements begin with the Department Chair March 1 and departmental approval must be completed before March 31, 1999. Prerequisites: *Anthropology 310* or *399*; courses directly relevant to the thesis topic; and an A- (80%) minimum overall average in Anthropology courses. Staff

Anthropology 405 – Anthropology of religion

Formerly AN320. 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: *AN 200* or permission of instructor. Three-hour lecture/seminar weekly. (Excludes *AN 320*)

A. Meneley

Anthropology 406 – Culture and Mortality

Although cultures are diverse, people of all cultures die. In this course we will explore the questions of death from the perspectives of many cultures. In light of this cross-cultural examination we ask what it means to be “mortal.” Prerequisite: *Anthropology 200* or permission of instructor. Three-hour seminar weekly. *S. Hepburn*

Anthropology – Comparative Development 407 – Politics, economics and culture

Anthropological approaches to the study of politics and the economy in non-industrial and industrial societies with an emphasis on the symbolic, ritual and social dimensions of these endeavours. The change and transformation of local economic and political units in the context of contemporary state organization and transnational economic systems.

Prerequisite: *Anthropology 200*, *Comparative Development 200* or permission of instructor. (Support course for Comparative Development Studies). Two-hour lecture, one-hour seminar weekly.

Anthropology 411 – Andean prehistory (Sc)

A detailed survey of the prehispanic civilizations of Peru and Bolivia. Archaeological evidence for the economy, ideology, and social organization of Inca, Tiwanaku, Moche, and other Andean civilizations will be reviewed. Prerequisite: *Anthropology 212* or permission of instructor. Two-hour lecture weekly, seminar fortnightly.

Anthropology 412 – Prehistory of Mesoamerica (Sc)

A survey of the ancient Native civilizations of Mexico and Central America from the earliest settlement to the European conquest. The course includes a study of Aztecs, Maya, Olmec and other societies of Mesoamerica. Prerequisite: *Anthropology 212* or permission of instructor. Two-hour lecture, seminar weekly. *Staff*

Anthropology 413 – Prehistory of the intermediate area (Sc)

Detailed survey of the ancient Native cultures of lower Central America and northern South America from the earliest settlement to the 16th century. The course examines Precolumbian evolution of cultures from Honduras to Ecuador, focusing upon aboriginal arts and technologies and contacts with the civilizations of Mesoamerica and the Andes. Prerequisite: *Anthropology 212* or permission of instructor. Two-hour lecture and seminar weekly.

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

A methodological and theoretical re-evaluation of anthropology's approach to gender. Cross-cultural approaches to biology, sex roles, ideology, politics, economics, kinship, etc. Prerequisite: *Anthropology 200*. Two-hour lecture/seminar weekly.

Anthropology 424H – Nonverbal communication

An overview of approaches to the study of human communication by all means other than words. Included are: proxemics (the relation of persons and objects in space); kinesics (gesture, posture, body movement); paralanguage (vocal cues that accompany speech); the special role of of the face and eyes; and the effects of personal appearance, clothing and bodily adornment. Prerequisite: *Anthropology 200* or *230*. Two-hour lecture/seminar weekly. (Excludes *AN423*)

Anthropology 432H – Phonetics

A survey of articulatory and acoustic phonetics emphasizing the attainment of practical skills in the recognition and the recording of speech sounds. Prerequisite: *Anthropology 230* or permission of instructor. Two-hour seminar weekly.

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

The methods of static, spatial and dynamic-functional measurements of the human body. The application of anthropometry in providing better relationships between humans and their technological innovations, i.e. tools, clothing, workspace, sports and medicine. Prerequisite: *Anthropology 240* or permission of instructor. One-hour lecture and two-hour lab session per week.

Anthropology – Canadian Studies 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. Prerequisites: *AN200* or *AN240* or (for Canadian Studies Studies majors only) *CA300*. One hour lecture and one hour seminar weekly.

Anthropology – Native Studies 455 – Anthropology and aboriginal peoples of Canada

Aspects of the relationship between Canadian Aboriginal Peoples and anthropology will be explored. This course will reflect on the paradigmatic changes that have occurred since the mid 19th century in anthropology and how these changes have affected relationships with Canadian Aboriginal Peoples in the field's subdisciplines, in museum work, and in applied work. Prerequisite: *AN200* and/or *NS200*. Three-hour seminar weekly. *J. Harrison*

Anthropology – Comparative Development 475H – Perspectives on ethnicity

(See Comparative Development)

Anthropology – Comparative Development 476H – Family and modernity

(See Comparative Development)

Anthropology 490, 491H, 492H – Reading course (Sc) (depending upon topic)

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

Anthropology 496H – Special Topic – Human osteology

Based on the study of human skeletal anatomy, this course deals with bio-archaeological methods and techniques of observation, description and measurements including age, sex and ancient diseases. Two-hour lecture and two-hour lab weekly. *H. Helmuth*

Anthropology – Canadian Studies 497H – Special Topic: Travel culture: the sociocultural impact of tourism

The sociocultural impact of tourism both domestically and internationally is the focus of this course. A two-day field trip in September will be a compulsory part of the course. Additional \$85 fee (estimate). Prerequisite: *Anthropology 200* or permission of the instructor. *AN309* recommended. Three-hour seminar weekly. *J. Harrison*

Anthropology 498H – Special Topic: DNA research in anthropology

Topics include an overview of DNA markers; applications of molecular genetic techniques on historic and ancient biological material of both human and animal remains; genetic evidence for human origins and the debate over the out-of-Africa and multi-regional hypotheses; and genetic evidence for global migration of humans within the past 100,000 years. Prerequisites: *Anthropology 212* and *240*. Three-hour lecture/lab weekly. *Staff*

BIOCHEMISTRY

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

M. Berrill, B.Sc. (McGILL), M.Sc. (HAWAII), Ph.D. (PRINCETON)

Chair of the Department of Chemistry

J. M. Parnis, B.Sc., Ph.D. (TORONTO)

Professors

See listing of faculty in Biology and Chemistry.

The chemistry of life processes touches at the heart of all things living. The Biochemistry 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.

Notes

- There is no minor in Biochemistry.

Bachelor of Science program in Biochemistry

- The program in Biochemistry 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 degree.
- An average of 75 % in all previous Chemistry and Biology courses and permission of the Co-ordinator are prerequisites for *Biochemistry 401* and *402D*.

The single-major Honours program consists of 20 credits. At least 13.5 credits in Biology and Chemistry. The program must include:

- *Biology 101* (or *102H* and *103H*), *206H*, *207H*, *383H*, *384H*, *Chemistry 100*, *200*, *212*, *240H*, *Chemistry – Biology 330*, *434H*, and *435H*
- one credit from *Biology 325H*, *326H*, *408H*, *409H* or *416H*.
- one additional credit in Chemistry at the 300-level
- three additional credits in Biology or Chemistry beyond the 200-level
- one credit in *Mathematics 110* or in *Mathematics 105H* and another course in Mathematics

The single-major General program consists of 15 credits. At least 9.5 credits in Biology and Chemistry. The program must include:

- *Biology 101* (or *102H* and *103H*), *206H*, *207H*, *383H*, *384H*, *Chemistry 100*, *200*, *212*, *240H*, and *Chemistry – Biology 330*
- one credit from *Biology 325H*, *326H*, *408H*, *409H* or *416H*
- one credit in Chemistry at the 300-level
- one credit in *Mathematics 110* or in *Mathematics 105H* and another course in Mathematics

Biochemistry 401 – 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 corequisite: two Chemistry or Biology lecture half-courses at the 400-level. Permission required. Contact Co-ordinator as soon as possible and no later than the end of the previous Winter session. This course is only available to students who are pursuing the Biochemistry degree and may not be combined with more than one credit in a project course in any other discipline. *Co-ordinator: S. Rafferty*

Biochemistry 402D – Double project course in biochemistry

At least 16 hours per week; otherwise as *Biochemistry 401*. May not be combined with any other project courses for credit toward the Biochemistry degree. *Co-ordinator: S. Rafferty*

BIOLOGY

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E-mail: biology@trentu.ca

Web: www.trentu.ca/Biology

Professor and Chair of the Department

M. Berrill, B.Sc. (McGILL), M.Sc. (HAWAII), Ph.D. (PRINCETON)

Professors Emeriti

R.L. Edwards, M.A., D.PHIL. (OXON); P.M. Powles, B.A. (McGILL), M.Sc. (WESTERN ONTARIO), Ph.D. (McGILL);

I. M. Sandeman, B.Sc. (ST ANDREWS), FLS

Professors

T.C. Hutchinson, B.Sc. (MANCHESTER), Ph.D. (SHEFFIELD), F.R.S.C.; D.C. Lasenby, B.Sc. (TRENT),

Ph.D. (TORONTO) (*on leave Winter session*); E. Nol, B.Sc. (MICHIGAN), M.Sc. (GUELPH), Ph.D. (TORONTO);

J.F. Sutcliffe, B.Sc. (WATERLOO), M.Sc., Ph.D. (TORONTO).

Associate Professors

M.G. Fox, B.Sc. (PENNSYLVANIA), M.E. DES. (CALGARY), Ph.D. (QUEEN'S);

T.R. Matthews, B.Sc. (SOUTHAMPTON); C.D. Maxwell, B.Sc. (WALES) (*on leave 2000–2001*).

Assistant Professors

M. Bidochka, B.Sc. (BROCK), M.Sc. (REGINA), Ph.D. (SASKATCHEWAN) (*on leave Fall session*); C.

Kapron, B.Sc. (WATERLOO), Ph.D. (McGILL); J. Schaefer, B.Sc. (McGILL), M.Sc. (MANITOBA), Ph.D.

(SASKATCHEWAN).

Adjunct Faculty

G. Mitchell, B.Sc. (TRENT), A.R.T.

Conjunct Faculty

J. Yee, B.Sc. (TORONTO), M.Sc. (QUEEN'S), Ph.D. (UNIVERSITY OF BRITISH COLUMBIA); B. White, B.Sc.

(NOTTINGHAM), Ph.D. (McMASTER).

Senior Demonstrator

D. Buelow, B.Sc. (TRENT), M.Sc. (TORONTO)

Associated Faculty

M. Havas, B.Sc., Ph.D. (TORONTO)

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

Notes

- *Biology 101* or *102H* and *103H* is a prerequisite for all upper level Biology courses, with the exception of cross-listed courses taught by other departments, for which students should check the prerequisites.
- All 300- and 400-level courses except *Biology 401*, *402D*, *440*, *445*, and *490* may be taken in either the third or the fourth year of the Honours program, and some will be offered only in alternate years.
- Students in second year who wish to register in a course beyond the 200-level may if they have the necessary prerequisites; otherwise they must obtain the permission of the instructor.
- A student may take a maximum of two credits in reading courses in Biology (1 credit in *Biology 390*, *391H*, *392H*, and *393H* plus one credit in *Biology 490*, *491H*, *492H*, and *493H*), but may not take both in the same academic session.
- If fewer than 10 students enrol in a course the format may be changed. If fewer than five students enrol in a course, it may be cancelled.
- Students planning to take *Biology – Environmental & Resource Science 202* should consider taking *Mathematics – Statistics 150* or *155H* in their first year.
- Any course involving work with vertebrate animals requires the Animal Care Course

which is described on p. 87 of the calendar. The Animal Care Course requirement is indicated in some course descriptions but may also apply to others. Check with the departmental 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, see the Biochemistry section of the calendar.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Registrar's Office 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

- The curriculum of the Biology department has been designed to allow students in the single-major or joint-major programs to specialize in one or more approaches to biology: A) physiology and medical biology, B) plant biology, C) animal biology, and/or D) ecology and evolution. Most of the upper level courses offered by the department are included in one or two of four categories, representing these four approaches.
- Courses appearing in two or more categories in the list below may be counted in only one of those categories.
- Brackets indicate that a listed course is no longer offered.
- Further specialization is possible through supervised independent study in *Biology 390, 391H, 392H, 393H, 490, 401, 402D, 440, 445, 491H, 492H and 493H*.
- Cross-listed courses, which are not on the list, may be counted as Biology credits but they do not fulfill category requirements.

A Physiology and Medical Biology	B Plant Biology	C Animal Biology	D Ecology and Evolution
205H	201	[204]	202
206H	321H	210H	205H
207H	322H	211H	305
310H	324H	309H	306H
325H	327H	310H	314H
326H	328H	314H	321H
[382]	329H	336H	327H
383H		[382]	328H
384H		383H	350H
405		384H	361H
408H		404H	362H
410H		410H	403H
411H		414H	404H
416H		415H	409H
445		423H	414H
			415H
			423H
			424H
			439H
			440

- *Mathematics 110, Mathematics – Statistics 150, or Mathematics 105H and Mathematics – Statistics 155H* are highly recommended for fulfilling the University requirement of one credit in Mathematics in the B.Sc. program.
- The following courses are also recommended for students planning to major in Biology: *Chemistry 100, Chemistry 212, Environmental & Resource Science 100, Geography 101, Mathematics 105H, Mathematics 135H, Mathematics – Statistics 155H, Physics 100, Science 350.*

- It is recommended that courses taken in the fourth year of the Honours program be beyond the 200-level.
- Students intending to take the Graduate Record Examinations (GRE) Advanced Biology Test, required by some Canadian and American Graduate Schools, should include the following courses in their program: *Biology 205H, 206H, 207H, 361H, and 362H, Biology – Environmental & Resource Science 202, Chemistry 100, and Mathematics 110.*
- Students intending to pursue graduate studies should take *Biology 401* or *402D*.
- For the Emphasis in Conservation Biology and in Health Sciences, see below.

The single-major Honours program consists of 20 credits. At least 10 credits in Biology.

The program must include:

- *Biology 101* or *102H* and *103H*
- nine additional credits, including one credit from each category and no more than one non-category credit
- *Chemistry 100*
- one credit in Mathematics

The joint-major Honours program consists of 19.5 or 20 credits (depending on the joint-discipline). At least seven credits in Biology. The program must include:

- *Biology 101* or *102H* and *103H*
- six additional credits in Biology, including at least one credit from each of two different categories and no more than one non-category credit
- one credit in Mathematics

The single-major General program consists of 15 credits. At least six credits in Biology. The program must include:

- *Biology 101* or *102H* and *103H*
- five additional credits in Biology, including at least one credit from each of three different categories and no more than one non-category credit
- *Chemistry 100*
- one credit in Mathematics

The joint-major general program consists of 15 credits. At least five credits in Biology. The program must include:

- *Biology 101* or *102H* and *103H*
- four additional credits in Biology, including one credit from one of the four categories, two half-credits from the other three categories, one additional credit from any category, and no more than one non-category credit
- one credit in Mathematics

Emphasis in Conservation Biology

Telephone: (705) 748-1424

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Web: www.trentu.ca/biology

Program Co-ordinators

E. Nol, B.Sc. (MICHIGAN), M.Sc. (GUELPH), Ph.D. (TORONTO), Department of Biology;

J. Schaefer, B.Sc. (MCGILL), M.Sc. (MANITOBA), Ph.D. (SASKATCHEWAN), Department of Biology

The Emphasis in Conservation Biology is available to students in the Honours program in Biology. The Emphasis 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, the World Wildlife Fund, and the Otonabee Regional Conservation Authority. A distinctive feature of the Emphasis 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 Emphasis Program, will contain the notation “with an Emphasis in Conservation Biology.”

Biology 440 (Internship in Conservation Biology)

Students must successfully complete *Biology 440*, which takes the form of an apprenticeship at a collaborating agency involved in the conservation of living organisms. Practising in the working environment of the agency for the equivalent of six hours a week, students will assist in a project centring on issues of biological conservation, such as habitat fragmentation, biodiversity, extinction, and species of special conservation status. Evaluation is based on a written appraisal from the agency, as well as a written report and an oral presentation by the student. Prerequisites: *Biology – Environmental & Resource Science 202*. Co-requisite: *Biology 362H* and *439H*. *Biology 440* is open to students in the Biology Honours program after the completion of at least 15 credits. It may be taken jointly with *Biology 401*, in cases where the scope of the internship warrants, but in such cases students may not receive credit for a thesis course in another department or program. Enrolment is limited and competitive. Students must apply in the year prior to anticipated enrolment in the course. Applications can be obtained from the Biology Office and must be submitted to a course co-ordinator before April 1. Students may not apply retroactively. *E. Nol and J. Schaefer*

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

- *Biology 362H*, *439H*, and *Biology – Environmental & Resource Studies 202*
- half-credit on a topic related to Conservation Biology from *Biology 390*, *391H*, *392H*, *393H*, *490*, *491H*, *492H* or *493H*
- three credits from the following:

<i>Biology 305</i>	<i>Biology 328H</i>	<i>Biology 404H</i>
<i>Biology 309H</i>	<i>Biology 350H</i>	<i>Biology 409H</i>
<i>Biology 314H</i>	<i>Biology 361H</i>	<i>Biology 410H</i>
<i>Biology 321H</i>	<i>Biology 385</i>	<i>Biology 411H</i>
<i>Biology 322H</i>	<i>Biology 386H</i>	<i>Biology 414H</i>
<i>Biology 324H</i>	<i>Biology 387H</i>	<i>Biology 415H</i>
<i>Biology 327H</i>	<i>Biology 388H</i>	
<i>Environmental & Resource Science 316H</i>		
<i>Environmental & Resource Science 320</i>		
<i>Environmental & Resource Science 335H</i>		
<i>Environmental & Resource Science 351H</i>		
<i>Environmental & Resource Science 424H</i>		
<i>Environmental & Resource Science 452H</i>		

Emphasis in Health Sciences

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Program Co-ordinator

C. Kapron, B.Sc. (WATERLOO), PhD. (MCGILL), Department of Biology

The Emphasis in Health Sciences is available to students in any Honours B.Sc. program. It is intended for students who are interested in a career related to health care or research. The Emphasis 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 Emphasis 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 B.Sc., who have successfully completed the requirements of the Emphasis Program, will contain the notation "with an Emphasis in Health Sciences."

Notes

- The Emphasis Program is open to students in any Honours B.Sc. program who have 15 credits.
- Students who choose courses in non-science departments should keep in mind that a

university-level mathematics course is required to obtain a B.Sc.

- Many medical schools require General Biology, General Chemistry, Physics, and a Humanities or Social Sciences course for admission. Students should consult each school for specific requirements.
- *Biology 445* may be taken jointly with *Biology 401* in cases where the scope of an internship project warrants.
- In some cases, depending on the nature of the placement, students may count *Biology 445* as a credit in a science discipline other than Biology.

Biology 445 (Internship in Health Sciences)

Students must successfully complete *Biology 445* which consists of a placement in a medically related setting for the equivalent of six hours a week for 24 weeks. Students are required to write a report on their placement. *Biology 445* is open to students who have 15 credits. Prerequisites: *Biology 101* (or *102H* and *103H*), *205H*, *206H*, *207H*, and *Chemistry 100*. Co-requisites: *Biology 383H* and *384H*. Enrolment is limited and competitive. Students are eligible to apply in the year prior to 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 *Biology 445*, the Emphasis in Health Sciences consists of eight credits, including:

- *Biology 101* (or *102H* and *103H*), *205H*, *206H*, *207H*, *383H*, *384H*, and *Chemistry 100*
- half-credit on a topic related to Health Sciences from 390 or 490 series reading courses in Biology, Chemistry, Environmental & Resource Science, or Psychology
- three credits from

Anthropology 344H, 346H, 348, 442H

Biology 211H, 304H, 307H, 310H, 325H, 326H, 408H, 411H, 416H

Chemistry 330, 434H, 435H

Economics 384H

Environmental and Resources Science 240, 313H, 370, 412H

Psychology 353, 375H, 376H

Sociology 363

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

Biology 102H – Current issues in biology I

An examination of the biological principles underlying questions concerning biodiversity and evolution. The course will begin with a prolonged discussion of biodiversity and the implications of its loss, accompanied by a field project on the University campus. This will be followed by consideration of the evolution of life on earth, assessing the major events and the adaptations of evolving plants and animals, and exploring the underlying processes of natural selection and ecological interactions. Prerequisite: OAC Biology or its equivalent or permission of the department. Two lectures weekly and alternating three-hour and one-and-a-half hour laboratory weekly. *D. Lasenby and staff*

Biology 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: OAC Biology or its equivalent or permission of the department. Two lectures weekly and alternating three-hour and one-and-a-half hour laboratory weekly. *J. Sutcliffe*

Biology 201 – Biology of plants

An introduction to the diversity of plants, focusing on their evolution, design, nutrition, water relations, growth and reproductive biology. Prerequisite: *Biology 101* or *Biology 102H*. Two lectures and three-hour laboratory weekly, tutorials every three weeks.

Biology – Environmental & Resource Science 202 – Ecology

A study of the interactions between organisms and their environment; the study of individuals, populations and communities with emphasis on the current theoretical and practical problems in ecology. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*). Highly recommended: *Mathematics-Statistics 150*. Two lectures weekly, and three-hour laboratory fortnightly.

J. Schaefer, E. Nol and D. Lasenby

Biology 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: *Biology 101* (or *Biology 102H* and *Biology 103H*) and *Chemistry 100*. Two lectures weekly and three-hour laboratory fortnightly. *M.J. Bidochka*

Biology 206H – Molecular biology

This course introduces students to molecular biology with emphasis on the mechanisms of DNA replication, repair, recombination, as well as transcription and translation. Signal transduction and current topics in recombinant DNA technology will be discussed. Not available to students with credit for *Biology 203*. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*), and *Chemistry 100* or permission of the instructor. Two lectures weekly, and three-hour laboratory fortnightly. *C. Kapron and staff*

Biology 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. Not available to students with credit for *Biology 203*. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*) and *Chemistry 100*. Highly recommended: *Biology 206H*. Two lectures weekly and three-hour laboratory fortnightly. *C. Kapron and staff*

Biology – Environmental & Resource Science – Geography 208H – Natural science statistics (See Geography.)**Biology 210H – Biology of invertebrates**

An introduction to the diversity of invertebrate animals emphasizing their evolutionary relationships and focusing on functional, behavioural and ecological aspects of their biology. Prerequisite: *Biology 101* or *Biology 103H* and co-requisite *Biology 102H* or permission of the instructor. Excludes *Biology 204*. Two lectures and one three-hour laboratory weekly. *T.R. Matthews*

Biology 211H – Vertebrate zoology

The evolution, ecology, life history, structural and functional morphology of the vertebrates. Not available to students with credit for *Biology 312*. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*). Two lectures and three-hour laboratory weekly with required dissections.

Biology – Environmental & Resource Science 240 – Environmental microbiology (See Environmental & Resource Science.)**Biology – Environmental & Resource Science 303H – Research design and data analysis**

Practical instruction in design of research projects, with emphasis on appropriate statistical analyses through the use of statistical software; some instruction in appropriate presentation of results. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*), and *Mathematics-Statistics 150* or *Biology – Geography – Environmental & Resource Science 208H*, and at least one second-year Biology credit. Lecture, two-hour workshop and a one or two-hour laboratory weekly. *E. Nol*

Biology 304H – Histology

The range of animal (with an emphasis on human) tissue types and how these tissues are organized into organ systems will be studied in lectures and labs. 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 and staining. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*). Highly recommended: *Biology 207H* or *Biology 211H*. Two lectures and three-hour lab weekly.

Biology 305 – Limnology

Ecology of freshwater ecosystems. Biology, geochemistry and physics of freshwater lakes, rivers and streams. Not available for students with credit for *Biology 306H*. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*) and *Biology – ERS 202*. Highly recommended: *Chemistry 100*. Lecture weekly, second lecture or workshop and three-hour lab fortnightly and field trips for which there will be no charge. *D.C. Lasenby*

Biology 306H – Limnology

Ecology of freshwater ecosystems. Biology, geochemistry and physics of freshwater lakes, rivers and streams. Not available for students with credit for *Biology 305*. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*) and *Biology – ERS 202*. Highly recommended: *Chemistry 100*. Lecture weekly, second lecture or workshop weekly. Three-hour lab fortnightly and field trips for which there will be no charge *D.C. Lasenby*

Biology 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. Not available to students with credit for *Biology 405*. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*) and *Biology 304H*. Two lectures, demonstrations and tutorials weekly. There will be a maximum charge of \$30 to cover field trips and photographic printing.

Biology 309H – Biology of insects

An introduction to the organization and diversity of insects. Lectures emphasize insect physiology, ecology and behaviour. Labs support lectures and provide an overview of insect taxonomy. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*). Highly recommended: *Biology 204* or *Biology 210H*. Two lectures per week, three-hour laboratory most weeks and occasional tutorials. 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. *J. Sutcliffe*

Biology 310H – Medical entomology

A study of medically important insects and the disease conditions they produce in humans and animals. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*) and *309H* or permission of instructor. Two lectures weekly, three-hour lab or tutorial weekly. *J. Sutcliffe*

Biology 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. Prerequisites: *Biology 101* (or *Biology 102H* and *Biology 103H*) and *Biology-Environmental Resource Science 202*. Highly recommended: *Mathematics-Statistics 150*. Two hours of lecture weekly and three hours of laboratory, fieldwork or workshop fortnightly. *M.G. Fox*

Biology 321H – Plant ecology

A study of the relationships of plants to one another and to their environment. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*) and *Biology 201* or permission of instructor. Lecture and three-hour laboratory or field studies weekly; seminar or tutorial fortnightly.

Biology 322H – Biology of seed plants

The biology of seed producing plants including topics such as identification, growth, development, reproduction, distribution and resource use. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*) and *Biology 201*. Two lectures weekly; weekly field trips for the first six weeks; seminar or tutorial every three weeks; some laboratory work. An extensive shrub and tree species collection is required. Details may be obtained from the Secretary of the Biology department. There will be a total charge of \$40 for field trips.

Biology 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: *Biology 101* (or *Biology 102H* and *Biology 103H*). Lecture, three-hour laboratory and seminar or tutorial weekly. *C.D. Maxwell*

Biology 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: *Biology 101*, or *102H* and *103H*. Recommended: *Biology 206H* and *Biology 207H*. Two-hour lecture/tutorial and three-hour laboratory weekly. Enrolment will be restricted to 30.

Biology 326H – Advanced microbiology

This course examines the principles of microbial ecology as it relates to humans, lake water and sediments. Laboratory sessions are of a project nature and place heavy emphasis on independent laboratory analysis. Students are required to be present in the laboratory twice per week. Prerequisite: *Biology 325H*. Recommended: *Biology 206H* and *Biology 207H*. Three-hour lecture/tutorial/laboratory setup and three-hour laboratory weekly.

Biology 327H – Plant population biology

The study of reproductive strategies of plants, with particular emphasis on the success of weed species. Seed production, dispersal, germination, establishment and vegetative means of reproduction will be examined. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*) and *Biology 201*. One lecture and laboratory or project time equivalent to three hours per week. Tutorial fortnightly.

Biology 328H – Stress ecology of plants

An examination of how plants, including individuals, populations and ecosystems, respond to stresses in the environment. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*). Recommended: *Biology – Environmental Resource Science 202* and *Biology 206H* and *Biology 207H*. Two lectures and seminar or tutorial weekly. *T. Hutchinson*

Biology 329H – Plants in society

A discussion of the importance of plants in society will include topics such as food, commercial products, medicines, psychoactive plants, plant breeding and biotechnology. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*); Highly recommended: *Biology 201* or equivalent. Two lectures weekly, seminar weekly; occasional required field trips including an all-day one. There will be a total charge for field trips of \$40 per person.

Biology – Chemistry 330 – General biochemistry (See Chemistry.)**Biology – Psychology 336H – Animal behaviour**

An introduction to the ecological, physiological and evolutionary mechanisms which influence the behaviour of animals, with particular emphasis on animal societies. Prerequisites: *Biology 101* (or *Biology 102H* and *Biology 103H*), and Animal Care Course for those involved in projects using vertebrates. Recommended: *Biology – Environmental & Resource Science 202*. Lecture and film-seminar weekly, tutorial fortnightly, and projects equal to a three-hour laboratory weekly.

Biology – Anthropology 347H – Primate Behaviour (See Anthropology.)**Biology – Anthropology 349H – Primate evolution** (See Anthropology.)**Biology – Anthropology 341 – Comparative osteology and human evolution**
(See Anthropology.)**Biology – Anthropology 344H – Human genetics, growth and adaptability**
(See Anthropology.)**Biology – Anthropology 346H – Human growth and adaptation** (See Anthropology.)**Biology 350H – Biogeography**

Major patterns of distribution and abundance of animal and plant species as affected by geological, ecological and evolutionary processes. Prerequisites: *Biology 101* (or *Biology 102H* and *Biology 103H*) and *Biology – Environmental Resource Science 202*. Two hours of lectures weekly, workshop fortnightly. *J. Schaefer*

Biology 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. Not available to students with credit for *Biology 360*. Prerequisites: *Biology 101* (or *Biology 102H* and *Biology 103H*) and at least one second-year biology credit. Two lectures per week, one lab or workshop every week. *M. Berrill*

Biology 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*. Not available to students with credit for *Biology 360*. Prerequisite: *Biology 101* (or *Biology 102H* and *Biology 103H*) and *205H*. Two lectures weekly and three-hour laboratory fortnightly. *M. Bidochka*

Biology – Psychology 375H – Principles of the nervous system (See Psychology.)**Biology – Psychology 376H – Neuropsychology** (See Psychology.)**Biology 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. Prerequisites: *Biology 101* (or *Biology 102H* and *Biology 103H*) and *Biology 207H*, and Animal Care Course. Highly recommended: *Chemistry 230H* or *Chemistry 212*. Two lectures and one three-hour laboratory weekly. *T.R. Matthews*

Biology 384H – Animal physiology II

Fundamental concepts in sensory, neural and reproductive physiology. Prerequisites: *Biology 101* (or *Biology 102H* and *Biology 103H*) and *Biology 207H*, and Animal Care Course. Two lectures and one three-hour laboratory weekly.

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

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

Biology 389, 389H – Community-based education

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 the Calendar on "Community-Based Education." For 2000 – 2001, please consult with the program office for specific details.

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

This course provides an opportunity for more intensive or broader study of a selected topic under the guidance of a faculty member. Open to students who have obtained at least two Biology credits in courses taught by members of the Biology department and who have an average of at least 75 % in the Biology courses they have taken. Students wishing to enrol in this course must complete an application form available from the department Secretary. It is the responsibility of the applicant to find a course supervisor and a second reader. All University deadlines as specified in the University Calendar apply. These courses may not be taken in the same academic session as *Biology 490*, *491H*, *492H* and *493H*. *T.R. Matthews and staff*

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

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

Biology 401, 402D – Research thesis

Biology 402D is a double credit in Biology. *Biology 401* is a single credit involving the same thesis as submitted to the other department/program in a joint-major or with *Biology 440* or *Biology 445*. 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. To qualify for research theses courses (*Biology 401* and *Biology 402D*) students should have a 75 % average in Biology courses, and the willingness of a faculty member to supervise the project. (In some cases, it may be possible to take *Biology 402D* with a 70 % average 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 departments/programs.

Biology – Geography – Environmental & Resource Science 406H –

The geochemistry of natural waters (See Environmental & Resource Science.)

Biology – Geography – Environmental & Resource Science 407H – The fate of contaminants in the aquatic environment (See Environmental & Resource Science.)**Biology 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: *Biology 101* (or *Biology 102H* and *Biology 103H*), *Biology 206H*, *Biology 207H* and Animal Care Course. Two hours of lectures weekly and one three-hour laboratory or seminar weekly. C. Kapron

Biology 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, *Biology 101* (or *Biology 102H* and *Biology 103H*) and at least one of *Biology 207H*, or *Biology 325H*. Two lectures weekly, one and one-half hour tutorial/ workshop fortnightly.

Biology – Environmental Resource Science 412H – Environmental carcinogenesis (See Environmental & Resource Science.)**Biology 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: *Biology 101* (or *Biology 102H* and *Biology 103H*), and at least one 200-level Biology credit. Two lectures weekly, one two-hour laboratory and workshop most weeks. Mandatory full week-end field trip in mid-September at cost to student. E. Nol

Biology 415H – Biology of marine mammals

A study of the evolution, population genetics, physiology, behaviour and conservation of cetaceans and seals. Prerequisites: *Biology 101* (or *Biology 102H* and *Biology 103H*), and *Biology – Environmental & Resource Science 202*. Two-hour lecture weekly and one tutorial weekly. M. Berrill

Biology 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. Prerequisites: *Biology 101* (or *Biology 102H* and *Biology 103H*), and *Biology 207H*. Two lectures and one three-hour lab or seminar weekly. C. Kapron

Biology – Environmental & Resource Science 424H – Fisheries assessment and management (See Environmental & Resource Science.)**Biology – Environmental & Resource Science 439H – Conservation biology**

Focuses on the causes and consequences of reductions to biodiversity and the design of strategies to counterbalance these reductions. The course attempts to provide a balanced overview of the discipline outlining both biological and human oriented dimensions. Prerequisites: *Biology 101* (or *Biology 102H* and *Biology 103H*) and *Biology – Environmental Resource Science 202*. Two hours of lectures and seminar weekly. J. Schaefer

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

Provides an opportunity for more intensive or broader study of a selected topic under the guidance of a faculty member. Open to students in their fourth quarter who have obtained at least two Biology credits in courses taught by members of the Biology department and who have an average of at least 75 % in the Biology courses they have taken. Students wishing to enrol in this course can obtain an application form from the Department Secretary. It is the responsibility of the applicant to find a course supervisor and a second reader. All University deadlines as specified in the University Calendar apply. These courses may not be taken in the same academic session as *Biology 390*, *391H*, *392H* and *393H*. T.R. Matthews and staff

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

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

CANADIAN STUDIES

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Professor and Chair of the Program

J.E. Struthers, M.A. (CARLETON), Ph.D. (TORONTO)

Founding President and Vanier Professor Emeritus

T.H.B. Symons, O.C., B.A. (TORONTO), M.A. (OXFORD), LL.D. (CONCORDIA, DALHOUSIE, LAURENTIAN, MANITOBA, MOUNT ALLISON, NEW BRUNSWICK, PRINCE EDWARD ISLAND, TRENT, WILFRID LAURIER, YORK), D.U. (OTTAWA), D.LITT. (COLOMBO), DIPLÔME D'ÉTUDES COLLÉGIALES (DAWSON), F.R.S.C.

Professors Emeriti

G. Roper, M.A., Ph.D. (CHICAGO); A. Wilson, M.A. (DALHOUSIE), Ph.D. (TORONTO)

Professor

J.H. Wadland, M.A. (WATERLOO), Ph.D. (YORK)

Associate Professors

D. Clarke, B.A. (TRENT), M.A. (McMASTER), Ph.D. (CARLETON); M. Lacombe, M.A., Ph.D. (YORK)

Conjunct Professor

S.G.D. Smith, B.A. (McGILL), M.A., B.LITT. (OXFORD), D.LITT. (TRENT)

Adjunct Faculty

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

Associated Faculty

Anthropology, J. Harrison, J. So, S.M. Jamieson, J.M. Vastokas; *Comparative Development Studies*, D.R. Morrison; *Cultural Studies*, J. Bordo; *Economics*, J. Muldoon; *English Literature*, G.A. Johnston, S.H.W. Kane, O.S. Mitchell, J.E. Neufeld, M.A. Peterman, Z. Pollock; *Environmental & Resource Studies*, S. Bocking, T. Whillans; *French*, J.-P. Lapointe; *Geography*, A.G. Brunger, J.S. Marsh, S. Wurtele; *History*, J.N. Jennings, E.H. Jones, D. McCalla, J. Sangster, S.D. Standen, K. Walden; *Native Studies*, P. Kulchyski, J.S. Milloy; *Political Studies*, R. Campbell, E. Helleiner, M. Neufeld, R.C. Paehlike, D. Torgerson, *Sociology*, J. Conley, B. Marshall, G. Thibault; *Women's Studies*, S. Arat-Koc, M. Hobbs

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

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 Registrar's Office 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

- There is no single-major General program in Canadian Studies.
- At least one Native Studies credit is included in degree requirements for the B.A. program in Canadian Studies.
- Students in the single-major or joint-major Honours programs wishing a 20-credit degree may include *Canadian Studies 498* in their fourth year, to be arranged with chair of the program during Early Registration.
- The program Brochure provides detailed information on course options, scholarships and prizes, reading course requirements, and graduate studies.

The single-major Honours program consists of 19 credits. At least nine credits in Canadian Studies. The program must include:

- *Canadian Studies – History 101*, *Canadian Studies – Geography – Environmental Studies 200H* and *203H*, *Canadian Studies – History – Sociology 300*, and *Canadian Studies 352H*
- three credits in Canadian Studies at the 400-level
- 2.5 additional credits in Canadian Studies
- one credit in Native Studies

The joint-major Honours program consists of 19 or 19.5 credits (depending on the joint-discipline). At least seven credits in Canadian Studies. The program must include:

- *Canadian Studies – History 101* and *Canadian Studies 352H*
- *Canadian Studies – Geography – Environmental Studies 200H* and *203H*, *Canadian Studies – History – Sociology 300*
- two additional credits in Canadian Studies at the 400-level
- 1.5 additional credits in Canadian Studies
- one credit in Native Studies

The joint-major General program consists of 15 credits. At least five credits in Canadian Studies. The program must include:

- *Canadian Studies – History 101* and *Canadian Studies 352H*
- *Canadian Studies – Geography – Environmental Studies 201H/203H* or *Canadian Studies – History – Sociology 300*
- 2.5 additional credits in Canadian Studies
- one credit in Native Studies

The Diploma Program in Canadian Studies

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

Eligibility

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

Language requirements

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

Special events

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

Visas, fees, and accommodation

International students admitted to the Diploma program are expected to make their own arrangements for visas, financing and accommodation during the year at Trent.

Nevertheless, every effort will be made to assist in this process.

The Diploma

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

Courses

- The Diploma program consists of four credits, including *Canadian Studies – History 101* and one credit from each of categories A, B, and C below (*Canadian Studies – Geography – Environmental Studies 200H and 203H*, *Canadian Studies – History – Sociology 300*, and *Canadian Studies 352H* are recommended).
- Students must obtain a standing of C- (60 %) or better in each of the courses in the program to qualify for the Diploma.
- For students taking a fifth credit, *Native Studies 100* is recommended

A Studies in the Social Sciences		B Studies in Regionalism and the Environment		C Studies in Culture	
201	341H	200	332H	253	365
235	362	203H	333H	254	383
255	366H	221H	337H	265	3953
260H	367	230	363H	266	403
261H	371H	250	364H	275H	445
267H	373H	263H	376H	3071H	4651
268H	384H	285	380H	3161H	4652
270	388H	302	397	325	466
271H	405	3031H	406	351	475
300	424H	310	407	352H	4951
304	425	326H	467H	356	4952
305	450H		470	360	497
308	460H				
309	476				
321H	477				
322H					

Please consult the academic timetable to determine which of the courses listed will be offered in 2000–2001.

Canadian Studies – History 101 – 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. Weekly lectures, workshops and tutorials.
M. Lacombe, J. Sangster

Canadian Studies – Geography – Environmental & Resource Studies 200H – Reconsidering Canada: Culturing the land

This course examines evolving constructions of nature associated, in Canada, with rural space and place. It invites students to reconsider “the laws of the land” through an ecological language of relationships. Themes to be explored include colonialism, settlement, resource development, sustainability, bush, agrarian and frontier landscapes, aboriginal rights, free trade, literary and visual representations of land. Lecture and seminar weekly. *J. Wadland*

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

Canadian Studies – Geography – Environmental & Resource Studies 203H – Reconsidering Canada: The nature of urbanism (See Geography)

Canadian Studies – History 221H – Ontario since 1945: From the ‘Common Good’ to ‘Common Sense’

This course explores rapid changes in the culture, economy, and politics of Ontario from the end of the Second World War to the present. Themes to be explored include the cultural transformation of Toronto, Ontario's deepening integration within a North American economy, oscillation between social democracy and neo-conservatism, health, education, and social policy, and the marginalization of rural and northern Ontario. The course also looks at selected literary and cultural reflections on provincial life since 1945. Lecture and tutorial weekly. *J. Struthers*

Canadian Studies – History 230 – The making of Canada, 1760–1873 (See History)**Canadian Studies – History 235 – Canada since 1914** (See History)**Canadian Studies – Environmental Studies 250 – Canadian natural resource theory and management** (See Environmental Studies)**Canadian Studies – Anthropology – Native Studies 253 – Aboriginal art of North America** (See Anthropology)**Canadian Studies – History 254 – Canada and the modern experience.** (See History)**Canadian Studies – Native Studies – History 255 – History of the Indians of Canada** (See Native Studies)**Canadian Studies – Economics 260H – Canadian economic development I: up to 1929** (See Economics)**Canadian Studies – Economics 261H – The Canadian Economy** (See Economics)**Canadian Studies – Geography 263H – Historical geography** (See Geography)**Canadian Studies – English 265 – English Canadian prose** (See English Literature)**Canadian Studies – English – Women's Studies 266 – Canadian women's writing**
Works by women in both English Canada and Quebec with special emphasis on the contemporary period and current literary theories (feminist, postmodern, postcolonial) and practices (including fiction-theory, lifewriting). Lecture, seminar weekly. *Staff***Canadian Studies – Environmental Studies – Political Studies 267H – Public policy** (See Political Studies)**Canadian Studies – Political Studies 268H – Policy and democracy: ethics, law & politics** (See Political Studies)**Canadian Studies – Native Studies – History 270 – History and politics of the Métis** (See Native Studies)**Canadian Studies – Geography 271H – Urban systems** (See Geography)**Canadian Studies – Women's Studies 275H – Women in Canada**

Case studies in Canadian women's culture (especially sexuality, relation to family and community, and artistic expression) both past and present, focused primarily on women's experience of place and region. Weekly lecture and tutorial. *M. Lacombe*

Canadian Studies – Native Studies 285 – Aboriginal People and the North (See Native Studies)**Canadian Studies – Sociology – Women's Studies 286 – Immigrant women in Canada** (See Women's Studies)**Canadian Studies – History – Sociology 300 – Canada: communities and identities**
An interdisciplinary study of place, regionalism, ethnicity, race, and community in Canadian life. First session: regional identity in Western, Atlantic, Central and Northern Canada. Second session: immigration, multiculturalism, race, language, and ethnic identity. Lecture weekly; seminar fortnightly. *J. Struthers***Canadian Studies – History 3021H – Quebec 1867 – 1930** (See History)**Canadian Studies – History 3022H – Quebec since 1930** (See History)**Canadian Studies – History 3031H – France in America to 1763** (See History)**Canadian Studies – History 304 – Canada and the world since 1900** (See History)**Canadian Studies – Politics – Sociology 305 – Politics and society in Quebec** (See Political Studies)**Canadian Studies – History 3071H – Public history I** (See History)

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

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

Canadian Studies – Politics 309 – Law and constitutional issues (See Political Studies)

Canadian Studies – Environmental & Resource Studies-Politics 310 – Public policy and the Canadian environment (See Environmental & Resource Studies)

Canadian Studies – History – Women's Studies 3161H – Canadian women's history
(See History)

Canadian Studies – History – Women's Studies 3162H – Canadian women's history
(See History)

Canadian Studies – Politics 321H – Ordering World Politics II: Canadian foreign policy in the 20th century (See Political Studies)

Canadian Studies – Geography – Women's Studies 322H – Gender, society and space
(See Geography)

Canadian Studies – History 324 – Canada: The North

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

Canadian Studies – French 325 – Théâtre et poésie du Québec (See MLL-French section.)

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

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

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

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

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

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

Canadian Studies 352H – Quebec contexts

An interdisciplinary study of communities and cultures, and social, political and historical contexts in Quebec and French Canada. Weekly seminar. *M. Lacombe*

Canadian Studies – Cultural Studies 356 – The Wilderness, modernity and the sublime
(See Cultural Studies)

Canadian Studies – English – Native Studies 360 – Native peoples in literature
(See English Literature)

Canadian Studies – Politics 362 – Public policy and administration in Canada
(See Political Studies)

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

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

Canadian Studies – English 365 – English-Canadian poetry (See English)

Canadian Studies – Politics 366H – Canadian political economy (See Political Studies)

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

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

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

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

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

Canadian Studies 381, 382H, 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 a fuller explanation, please consult the section of this Calendar on “Community-Based Education Program.”

Canadian Studies – French 383 – Le roman québécois (See MLL-French Section)**Canadian Studies – Economics 384H – Health economics** (See Economics)**Canadian Studies – Sociology 388H – Canada compared** (See Sociology)**Canadian Studies 390, 391H, 392H, 393H – Reading course**

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

Canadian Studies 395, 396H, 398H – Special topics**Canadian Studies – History 3953 – Canada and Japan** (See History)**Canadian Studies – Women's Studies 397H – Women, health and environment**
(See Women's Studies)**Canadian Studies – Sociology – Women's Studies 398H – Immigrant women and the state in Canada** (See Women's Studies)**Canadian Studies 401 – Single credit Honours thesis**

Arrangements to be made through the program Chair.

Canadian Studies 402D – Double credit Honours thesis

Arrangements to be made through the program Chair.

Canadian Studies – History 403 – History of night (See History)**Canadian Studies – Politics 405 – Contemporary Canadian problems**
(See Political Studies)**Canadian Studies – History 406 – Upper Canada 1784 – 1867** (See History)**Canadian Studies – History 407 – The Canadian-American frontier** (See History)**Canadian Studies – Comparative Development Studies – Political Studies 424H – Canada and international development** (See Comparative Development Studies)**Canadian Studies – History – Native Studies 425 – The evolution of the settlement commonwealth** (See Native Studies)**Canadian Studies – Sociology 445 – The media and communications in Canada**

Overview of the history and political economy of the media industries, including publishing, film, radio, television, and new communication technologies. Special topics include media ownership and control, the process of television news production, and the dynamics of media reception. Prerequisite: *Canadian Studies-History-Sociology 300*, or a 300-level sociology course, or permission of the instructor. Two-hour seminar weekly.

D. Clarke

Canadian Studies – Anthropology 450H – Anthropology of race and racism
(See Anthropology)**Canadian Studies – Environmental & Resource Studies – Politics 460H – Public policy in global perspective** (See Political Studies)**Canadian Studies – English 4651 – Advanced studies in Canadian literature**
(See English Literature)**Canadian Studies – English 4652 – Modern and contemporary Canadian fiction**
(See English Literature)**Canadian Studies – Environmental & Resource Studies 467H – History of environmental science and policy** (See Environmental Studies)

Canadian Studies – Environmental & Resource Studies 470 –**Bioregionalism: The Otonabee River watershed, Haliburton section**

Ecology, history and culture; sustainable development; appropriate technology; regional planning. Permission of instructor required prior to pre-registration. Two-hour workshop and one-hour tutorial weekly. *J. Wadland, T. Whillans*

Canadian Studies – History 475 – History of everyday life (See History)**Canadian Studies – History 476 – Canadian working class history** (See History)**Canadian Studies – History 477 – Studies in Canadian social policy**

This research course examines the evolution of social policy from the early 19th to the late 20th century; governmental, professional and organizational responses to poverty, disease, old age, mental illness, physical disability, family fragmentation. Seminar weekly.

J. Struthers

Canadian Studies 481, 482H, 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."

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

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

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

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

Canadian Studies 495, 496H, 497H, 498H – Special topics**Canadian Studies – Women's Studies 4951 – Canadian feminist organizing**

(See Women's Studies)

Canadian Studies – Anthropology 497H – Travel culture: The sociocultural impact of tourism (See Anthropology)**Canadian Studies 498 – Advanced topics in Canadian studies**

Taken in conjunction with another of the program's 400-level courses, offers advanced study of selected aspects thereof. Arrangement through program Chair in consultation with course instructor.

CHEMICAL PHYSICS

Program Co-ordinators

Chair of the Department of Chemistry

J.M. Parnis, B.Sc., Ph.D. (TORONTO)

Chair of the Department of Physics

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

Professors

See listing of faculty in Chemistry, Mathematics and Physics

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

Note

- There is no minor in Chemical Physics.

Bachelor of Science program in Chemical Physics

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

The single-major Honours program consists of 20 credits. At least 14 credits in Chemistry, Physics and Mathematics. The program must include:

- Chemistry 100, 200, 301H, and 302H
- Physics 100, 202H, 203H, 321, and 400
- Mathematics 110, 200, 205H, and 305H
- two of Chemistry 401H, 408H, or 497H
- two additional credits in Chemistry, Physics, or Mathematics at the 400-level
- one additional credit in Chemistry, Physics, or Mathematics

The single-major General program consists 15 credits. At least 10 credits in Chemistry, Physics, and Mathematics. The program must include:

- Chemistry 100, 200, 301H, and 302H
- Physics 100, 202H, 203H, and 321
- Mathematics 110, 200, 205H, and 305H
- one additional credit in Chemistry or Physics at the 200- or 300-level

CHEMISTRY

Telephone: (705) 748-1505

Fax: (705) 748-1625

E-mail: chemistry@trentu.ca

Web: www.trentu.ca/chemistry

Chair of the Department

J. M. Parnis, B.Sc., Ph.D. (TORONTO)

Professors Emeriti

P. F. Barrett, M.Sc. (QUEEN'S), Ph.D. (TORONTO), F.C.I.C.; S.A. Brown, B.S.A. (TORONTO), M.S., Ph.D. (MICHIGAN STATE); R.E. March, B.Sc. (LEEDS), Ph.D. (TORONTO), F.C.I.C.; K.B. Oldham, Ph.D., D.Sc. (MANCHESTER), F.C.I.C.; A.H. Rees, M.A., Ph.D. (CAMBRIDGE), M.A. (OXFORD), Ph.D. (LONDON), F.C.I.C., ASSOC. R.C.S.; R.A. Stairs, B.Sc. (McGILL), M.Sc. (WESTERN ONTARIO), Ph.D. (CORNELL), F.C.I.C.

Professors and NSERC Industrial Chairs

D. Mackay, B.Sc., Ph.D. (GLASGOW); P. Dillon, M.Sc., Ph.D. (TORONTO)

Professor

E.G. Lewars, B.Sc. (LONDON), Ph.D. (TORONTO)

Assistant Professor and NSERC Industrial Junior Chair

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

Assistant Professors

C. D > MacKinnon, B.Sc. (DALHOUSIE), Ph.D. (GUELPH); S. P. Rafferty, B.Sc. (WATERLOO), Ph.D. (BRITISH COLUMBIA); I. Svishchev, M.Sc. (MOSCOW STATE), Ph.D. (USSR ACADEMY OF SCIENCES)

Conjunct Associate Professors

R.C. Makhija, M.Sc., Ph.D. (LUCKNOW), C.CHEM., F.C.I.C.; A.M. Zobel, M.Sc., Ph.D. (WARSAW)

Senior Demonstrator

H. Al-Haddad, B.Sc. (BAGHDAD), Ph.D. (STRATHCLYDE), C. Chem.

Demonstrators/Technicians

B. Best, B.Sc. (TRENT); S. Landry, B.Sc. (TRENT), J. LaPlante, J. Richardson B.Sc. (TRENT), M.C.I.C.

Chemistry is the central discipline of science, with interdisciplinary links to all other physical science and many 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, bioinorganic, and materials chemistry. Chemistry education at Trent involves working closely with faculty and staff in formal lecture and informal laboratory and tutorial/workshop settings. Many students choose to do an Honours year research project in which they obtain first-hand experience in modern chemical research design and methods.

Notes

- *Chemistry 100* is a prerequisite for all upper level Chemistry courses.
- An OAC or equivalent in Chemistry is a prerequisite for *Chemistry 100*. Students without this prerequisite should contact the chair of the department for advice before Early Registration.
- All students taking one or more Chemistry courses which have a laboratory component must pay a breakage deposit of \$100. Depending on breakages incurred, this deposit will be returned wholly or in part or not at all.
- Any course involving work with vertebrate animals requires the Animal Care Course which is described on p. 87 of the calendar. The Animal Care Course requirement is indicated in some course descriptions but may also apply to others. Check with the departmental secretary or course instructor if in doubt.
- For the programs in Biochemistry, 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 Registrar's Office 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

- The single-major degree program in Chemistry is designed to give students the courses required for accreditation by the Canadian Society for Chemistry.
- A maximum of two credits may be taken in Chemistry project courses.

- one credit in Chemistry at the 300-level, or in another science discipline at the 400-level, may be substituted for a credit in Chemistry at the 400-level.
- An average of 75% in all previous Chemistry courses and the permission of the instructor are prerequisites for *Chemistry 451, 452, 453H, 454H, and 455H*.
- No more than two credits from thesis or project courses may be counted towards a Chemistry degree.

The single-major Honours program consists of 20 credits. At least 11 credits in Chemistry. The program must include:

- *Chemistry 100, 200, 212, 240H, 321H, and 322H*
- *Chemistry – Environmental & Resource Science 342H or 343H*
- two additional credits in Chemistry at the 300-level
- 4 credits in Chemistry at the 400-level, including at least 1.5 credits in lecture courses
- *Physics 100*
- one credit in *Mathematics 110* or in *Mathematics 105H* and either *135H* or *155H*
- one credit in Mathematics beyond the 100-level

The joint-major Honours program consists of 19.5 or 20 credits (depending on the joint-discipline). At least seven credits in Chemistry. The program must include:

- *Chemistry 100*
- two credits in Chemistry at each of the 200-, 300-, and 400-levels
- one credit in *Mathematics 110* or in *Mathematics 105H* and either *135H* or *155H*
- one credit in Mathematics beyond the 100-level

The single-major General program consists of 15 credits. At least six credits in Chemistry. The program must include:

- *Chemistry 100, 200, 212, and 240H*
- two credits in Chemistry beyond the 200-level
- half- additional credit in Chemistry
- one credit in Mathematics

The joint-major General program consists of 15 credits. At least five credits in Chemistry. The program must include:

- *Chemistry 100*
- two credits in Chemistry at the 200-level
- two credits in Chemistry at the 300-level
- one credit in Mathematics

Please consult the academic timetable to determine which of the courses listed will be offered in 2000–2001.

Chemistry 100 – Introductory chemistry

Essential aspects of general, physical, inorganic, and organic chemistry, and bio-chemistry. Atoms, molecules, bonding, equilibrium, gases, liquids, solutions, crystals, redox chemistry, reaction kinetics and chemical thermodynamics. Introduction to organic and biologically important molecules and their chemistry. Prerequisite: OAC Chemistry or equivalent or permission of instructor (see notes). Three lectures weekly; laboratory and problem sessions in alternate weeks. *C. MacKinnon*

Chemistry 200 – Elementary physical chemistry

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

Chemistry 212 – Introductory organic chemistry

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

Chemistry 240H – Analytical chemistry

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

Chemistry – Environmental & Resource Science 241H – Environmental chemistry

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

Chemistry 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. Prerequisites: *Chemistry 200* and *Mathematics 110* or permission of the instructor. Recommended: *Mathematics 200*. Three lectures, one laboratory or tutorial weekly. *M. Parnis*

Chemistry 302H – Advanced thermodynamics

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. Prerequisites: *Chemistry 200* and *Mathematics 110* or permission of the instructor. Recommended: *Mathematics 200*. Three lectures, one laboratory or tutorial weekly. *I. Svishchev*

Chemistry 310 – Advanced organic chemistry

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

Chemistry 321H – Transition metal chemistry

The chemical, 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. Prerequisite: *Chemistry 200*. Two lectures and laboratory weekly; tutorial or seminar in alternate weeks. *C. MacKinnon*

Chemistry 322H – Chemistry of main-group elements

Structure and bonding of inorganic compounds of the main group elements, and correlation of physical and chemical properties with electronic structure. Prerequisite: *Chemistry 200*. Two lectures and laboratory weekly; tutorial or seminar in alternate weeks. *C. MacKinnon*

Chemistry – Biology 330 – General biochemistry

Biochemistry is essentially the study of how complexity in life arises from simplicity in chemistry. The course begins with the structure and chemical properties of the essential building blocks of life (water, lipids, carbohydrates, nucleotides, and amino acids) and how these relatively simple molecules are assembled into large and sophisticated biological structures (membranes, polysaccharides, nucleic acids and proteins). After this introduction to the structure of biomolecules, the course turns to their key functional roles; including biocatalysis, bioenergetics, and the biomechanical mechanisms by which cells respond to their environment. Prerequisite: *Chemistry 212*. Recommended: *Biology 206H* and *Biology 207H*. Two lectures and laboratory weekly; tutorials in alternate weeks. *S. Rafferty*

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

Theory and practice of electrochemical and spectrophotometric methods in analysis.

Prerequisite: *Chemistry 240H*. Laboratory and two lectures weekly, tutorials to be arranged.

H. Hintelmann

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

Theory and practice of chromatography, mass spectrometry and sampling. Particular emphasis will be placed on applications in environmental analysis. Prerequisite:

Chemistry 240H. Laboratory and two lectures weekly, tutorials to be arranged.

H. Hintelmann

Chemistry 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: *Chemistry 301H*. Two lectures or seminars weekly. *M. Parnis*

Chemistry 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: *Chemistry 200*. Recommended: *Chemistry 241H*. Two lectures or seminars weekly. *I. Svishchev*

Chemistry 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: *Chemistry 310*. Two lectures, tutorials or seminars weekly. *E. Lewars*

Chemistry 413H – Computational chemistry

The use of molecular mechanics, semi-empirical ab initio methods in the investigation of molecular structure and reactivity. Prerequisite: *Chemistry 200* and *Chemistry 212*. Two lectures, tutorials or seminars weekly. *E. Lewars*

Chemistry – Biology 434H – Protein chemistry

The complexity and diversity of organisms derives largely from the action of hosts of proteins, acting in concert as catalysts, transporters, signalling agents, and structural elements. Besides presenting important examples of these roles, this course will describe how such variety in protein structure and function can be generated from the application of a few simple concepts to a relatively small number of simple precursors. The techniques and applications of protein engineering will also be discussed. Prerequisite: *Chemistry – Biology 330* or permission of the instructor. Two to three hours of lecture per week. *S. Rafferty*

Chemistry – Biology 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: *Chemistry – Biology 330* or permission of the instructor. Two to three hours of lecture per week. *S. Rafferty*

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

A detailed description of modern analytical instrumentation, techniques and their applicability to research. The primary goal is to give the student a basic understanding of theory and design of current analytical instrumentation. At the same time, students will become acquainted with the current literature, current research in analytical/environmental chemistry and solve real-world problems. Prerequisite: *Chemistry – Environmental & Resource Science 342H* or *343H* or permission of the instructor. Two hours of lecture and one hour of tutorial and/or seminars weekly.

Chemistry 451 – Project course in chemistry

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

Chemistry 452 – Double-credit project course in chemistry

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

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

As *Chemistry 451*; about eight hours per week (about four hours for *Chemistry 455H*) *Co-ordinator: I. Svishchev*

Chemistry 490 – Reading course

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

Chemistry 497H – Structure and bonding in inorganic molecules and solids

Structure and bonding theory in inorganic molecules is reviewed and expanded for extended structures (polymers and solids). Topics include the Jahn-Teller and Peierls distortions; Huckel theory; Walsh diagrams; and band structures in metals, semiconductors, and insulators. Prerequisite: one of *Chemistry 321H* or *Chemistry 322H*. Two lectures and a tutorial or seminar weekly. *C. MacKinnon*

Chemistry 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 *Chemistry 413H*. Interested students should contact the co-ordinator during the fall. Prerequisite: *Chemistry 413H*. About eight hours per week. *Co-ordinator: E. Lewars*

COMPARATIVE DEVELOPMENT STUDIES

Telephone: (705) 748-1339

E-mail: cds@trentu.ca

Fax: (705) 748-1624

Web: www.trentu.ca/cds

Chair of the Program

To be named

Professors

C.V. Huxley, B.A. (YORK, ENGLAND), M.A. (SIMON FRASER), Ph.D. (TORONTO); D.R. Morrison, M.A. (SASKATCHEWAN), D.PHIL. (SUSSEX)

Associate Professors

W. Lem, M.A., Ph.D. (TORONTO); R.D. Powell, LIC. EN HISTORIA (CORDOBA), Ph.D. (McGILL); J. Solway, B.A. (OAKLAND), M.A., Ph.D. (TORONTO)

Assistant Professor

J. Clapp, B.A. (MICHIGAN), M.Sc., Ph.D. (LONDON)

Associated Faculty

Anthropology: A. Meneley; *Economics:* S. Choudhry, *Cultural Studies:* A. O'Connor; *Environmental & Resource Studies:* S. Bocking, R. Pouce-Hernandez; T. Whillans; *Geography:* J.S. Marsh; *Hispanic Studies:* T. Noriega; *History:* D. Sheinin, T. Stapleton; *Native Studies:* D.N. McCaskill; *Political Studies:* E. Helleiner, M. Neufeld, A. Pickel.

Honorary Professor

L.A. Costa Pinto, LIC.SOC. (BRAZIL)

Conjunct Professors

B. Beck, B.A. (CHICAGO), B.LITT. (OXFORD), D.PHIL. (OXFORD), T. Korovkin, M.A. (MOSCOW), M.A. (YORK), Ph.D. (YORK), S. Langdon, B.A. (TORONTO), M.A. (CARLETON), D.PHIL. (SUSSEX)

The program in Comparative Development Studies involves the comparative examination of societies and cultures undergoing rapid change, and of the complex global relations between industrialized countries and the developing areas of Africa, Asia, the Caribbean, and Latin America. It is offered with the co-operation of the following departments and programs: Anthropology, Cultural Studies, Economics, Environmental & Resource Science/Studies, Geography, History, Hispanic Studies, Native Studies, Political Studies, Sociology, and Women's Studies.

Note

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

Bachelor of Arts program in Comparative Development Studies

- There is no single-major General program in Comparative Development Studies.
- Students are strongly encouraged to enrol in some of the following courses: *Economics 101H, 102H* (both required in the single-major Honours program), *Anthropology 100, Politics 100, History 170, or Sociology 100*.
- Students undertaking the joint-major program in Anthropology and Comparative Development Studies may substitute *Comparative Development - Anthropology 221* for one of *Anthropology 212, 230, or 240* in their Anthropology requirements.
- Depending upon their area of interest, students are encouraged to enrol in French or Spanish language courses.
- The following is a list of support courses approved by the program. One credit in a support course may be counted towards the minimum number of credits in Comparative Development Studies courses in each degree program.

<i>Anthropology 409</i>	<i>Politics 220, 322H</i>
<i>Economics 311H, 312H</i>	<i>Politics - Canadian Studies 326H</i>
<i>English 315H</i>	<i>Sociology 480</i>
<i>Geography - Canadian Studies 380H</i>	<i>Spanish 326</i>
<i>History 447, 4904</i>	

The single-major Honours program consists of 19 credits. At least nine credits in Comparative Development Studies. The program must include:

- *Comparative Development Studies 100, 200, Comparative Development Studies - Economics 231H and 333H*
- one credit from *Comparative Development Studies 400, 422, 423H, 424H, 475H, or 476H*
- one additional credit in Comparative Development Studies at the 400-level
- four additional credits in Comparative Development Studies
- *Economics 101H and 102H*

The joint-major Honours program consists of 19 or 19.5 credits (depending on the joint-discipline). At least seven credits in Comparative Development Studies, including:

- *Comparative Development Studies 100 and 200*
- one credit from *Comparative Development Studies 400, 422, 423H, 424H, 475H, or 476H*
- four additional credits

The joint-major General program consists of 15 credits. At least five credits in Comparative Development Studies, including:

- *Comparative Development Studies 100 and 200*
- three additional credits

Year Abroad Programs

These are designed primarily for Honours students in the third year of their program in the single-major or joint-major programs in Comparative Development Studies or Anthropology, with an overall average of at least B- (70 %). They are offered only in Ecuador and Ghana.

The Ecuador program consists of the following courses:

Spanish 250, Comparative Development 380, 387, 388, and Comparative Development - Anthropology 389.

The Ghana program consists of the following courses:

Comparative Development - Anthropology 377, 378, 379, and 380.

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

Comparative Development 100 – Human inequality in global perspective

An introduction to the basic ideas and perspectives of development analysis including issues of population growth, food, transformation of rural life, gender, the environment, urbanization and industrialization. The investigation of development and under-development proceeds from comparative and historical perspectives with illustrations from widely differing societies. *Staff*

Comparative Development 200 – Development analysis

An examination of the strengths and limitations of the major perspectives that have informed development studies. Consideration of selected monographs which address critical issues on the basis of well-defined models and sound empirical research.

Prerequisite: *CD100* or departmental permission. *W. Lem*

Comparative Development – Anthropology 221 – Agrarian change and food production in a global context

A comparative analysis of changes in land tenure, land use and social organization of agrarian societies that are affected by the processes of commodification and globalization of food production. Ethnographic, political and economic material from the developing world will be used to illustrate these changes with a focus on the 'post-colonial' experience of these societies. Prerequisite: *CD100* or *AN100* or permission of the instructor. *D. Powell and J. Clapp*

Comparative Development – Economics 231H – Economics of developing countries
(See Economics)

Comparative Development – History 2401H – The emergence of modern Africa before 1880 (See History)

Comparative Development – History 2402H – The emergence of modern Africa since 1880 (See History)

Comparative Development – History 2471H – Introduction to Latin America, 1500 – 1830 (See History)

Comparative Development – History 2472H – Introduction to Latin America, 1800 – 1990 (See History)

Comparative Development – Anthropology 301 – African culture and society
(See Anthropology)

Comparative Development – Anthropology 304 – Latin American culture and society
(See Anthropology)

Comparative Development – Native Studies 305 – Aboriginal community development
(See Native Studies)

Comparative Development – Anthropology 306 – South Asian culture and society
(See Anthropology)

Comparative Development – Women's Studies 325 – Women, gender and development
(See Women's Studies)

Comparative Development – Cultural Studies 332 – Media and development
(See Cultural Studies)

Comparative Development – Economics 333H – The economics of global interdependence (See Economics)

Comparative Development – Environmental & Resource Studies 360 – Environment and development (See Environmental & Resource Studies)

Comparative Development – Anthropology 377 – Society, culture and development in Africa

Historical dimensions and socio-cultural diversities in sub-Saharan Africa; the changing economic relationship of the area with the global economy; the politics of sub-regional conflict and continental and regional integration; trends towards democratization and the strengthening of civil society. (Offered only in Ghana.)

Comparative Development 378 – Ghana seminar

Contemporary Ghana in the light of its historical background and its patterns of stratification, religion, ethnicity and gender. Processes of structural change, including economic policy, social and political movements. (Offered only in Ghana.)

Comparative Development 379 – Local dynamics of change

Social, political and economic conditions that encourage or block micro-level improvements; role of women's organizations and other local institutions and their relations with local District Assemblies and other government authorities. (Offered only in Ghana.)

Comparative Development 380D – Community development

Theory and practice of community development, with an extensive field placement. (Offered only in Ecuador and Ghana.)

Comparative Development 385H – Field course

An examination of the development experiences and strategies in a Caribbean country. Particular attention is devoted to relations with Canada. The course involves a field trip coinciding with the Winter Reading Break. Students pay a field trip fee and cover their other costs. In 2001, the focus will be on Cuba.

Comparative Development 387 – Introduction to Quichua language and culture

Prerequisite: *Spanish 250* or equivalent. (Offered only in Ecuador.)

Comparative Development 388 – Ecuador seminar

An examination of the major features of Ecuadorian economic, political and social life, with particular attention to regional and cultural diversity. (Offered only in Ecuador.)

Comparative Development – Anthropology 389 – Andean economy, culture and society

An examination of the structure of agrarian production systems, role of land tenure and market relations in selected Andean societies. Impact of mining and manufacturing industry, and the role of the state in shaping economic and social development. Emergence of political and ideological movements. (Offered only in Ecuador.)

Comparative Development 390, 391H, 392H – Reading courses in comparative development

Open only to students taking a major in Comparative Development Studies, and designed to provide an opportunity for specialized studies on selected topics. Periodic tutorials. Prerequisite: Permission of the Chair and the instructor concerned.

Comparative Development – History 3951H – Southern Africa in the 19th century

(See History)

Comparative Development – History 3952H – Southern Africa in the 20th century

(See History)

Comparative Development 400 – Modernity and development

A study of selected theoretical and policy issues arising in the passage from local traditions and cultures to modernity as a result of industrialization and global integration.

C.Huxley

Comparative Development 401/402D – Honours thesis

A specific scholarly project on a well-defined topic for which double credit or single credit will be given. Prerequisite: minimum A- (80 %) average in CDS courses.

Comparative Development – Anthropology 407 – Politics, economy and culture

(See Anthropology)

Comparative Development 422 – Assessment of development projects

An examination of techniques for analysing and assessing projects for industrial, rural and social development, and of selected case studies. Case studies will include Canadian projects for development assistance in third world countries. Introductory lectures and weekly seminars. Open only to students in the fourth quarter of the Honours degree.

Enrolment limit of 14. *R.D. Powell*

Comparative Development – Political Studies 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. Emphasis will be placed on the operation and impact of 'global civil society' in the context of current campaigns by non-governmental organizations regarding specific issues such as developing country debt, trade agreements, transnational investment, the global food market, and the environment. Two hour seminar weekly. Open only to students in the fourth quarter of the Honours degree. *J. Clapp*

Comparative Development – Political Studies – Canadian Studies 424H – Canada and international development

Canada's relations with developing countries and role in North-South issues, especially development assistance, ecologically sustainable development, human rights and democratization, trade and investment, and immigration and multiculturalism. Two hour seminar weekly. Prerequisite: One of *CD200*, *CAER 200H*, *PO220* or permission of the instructor. Open only to students in the fourth quarter of the Honours degree. Enrolment limit of 16. *D.R. Morrison*

Comparative Development – Politics 427H – Democracy and the global order

(See Political Studies)

Comparative Development – Politics – Environmental & Resource Studies 461H – Global environmental policy (See Environmental & Resource Studies)**Comparative Development – Sociology 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. Two-hour seminar weekly. *J. Hillman*

Comparative Development – Anthropology 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: *Anthropology 200* or *Comparative Development 200* or permission of instructor. Open only to students in the fourth quarter of the Honours degree. *J. Solway*

Comparative Development – Anthropology 476H – Family and modernity

An examination of the dynamics of the family and kinship and their 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' such as those emerging from new reproductive technologies. Prerequisite: *Comparative Development 200* or *Anthropology 200*. Open only to students in the fourth quarter of the Honours degree or by permission of instructor. *J. Solway*

Comparative Development 490, 491H, 492H – Reading courses in comparative development

Open to students in the fourth quarter of the Honours program in Comparative Development Studies. Periodic tutorials. Prerequisite: Permission of the Chair and the instructor concerned.

COMPUTER SCIENCE/STUDIES

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Professor

James W. Jury, M.Sc., Ph.D. (TORONTO)

Associate Professors

Stephen B. Regoczei, M.Sc. (TORONTO), Morgan J. Tamplin, B.A. (TORONTO), M.A. (LONDON), Ph.D. (ARIZONA)

Assistant Professor

Bart C. Dornzy, B.Sc., M.Sc. (ALBERTA), Ph.D. (WATERLOO)

Conjunct Associate Professor

Norman R. Ball, B.A. (McMASTER), M.A., Ph.D. (TORONTO)

Adjunct Faculty

Lorine E. McHardy, B.A., M.Sc. (WESTERN ONTARIO), Peter J. Northrop, ISP

Associated Faculty

Geography, J.G. Cogley; *Mathematics*, S. Bilaniuk, E.A. Maxwell, D.G. Poole, B. Zhou; *Philosophy*, B. Hodgson, R.M. Neumann

Laboratory Demonstrator

Meredith E. Soper, B.A. (WESTERN ONTARIO), B.Sc. (TRENT)

Computer Science/Studies has changed from a very technical discipline to one that has many aspects extending into science, social science, industry, and the humanities. The intent of the program is to provide students with a sound basis in computer science and computer studies, along with a comprehensive education in areas where the use of computer technology and computational ideas have a major influence.

Notes

- A standing of 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.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Registrar's Office for a minor in Computer Studies, if they have met the requirements for the joint-major General degree (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.
- Courses in the program are classified under one or more streams: Computer Science, Information Systems, and Digital Techniculture. These streams are for information and planning purposes only. They do not directly affect a student's degree program.
- An upper-year course information session will be held in the Winter session.

Bachelor of Science program in Computer Science/Studies

- There is an Honours B.Sc. program in Computer Science (single-major and joint-major); there is no General B.Sc. program in Computer Science.
- 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 B.Sc. degree with another Science discipline, they must successfully complete *Computer Science 400*.
- Students may count no more than one credit from reading courses towards their B.Sc. degree in Computer Science (single-major or joint-major).

- *Computer Science – Mathematics 405* and *Computer Science – Mathematics 207H* are counted as 300-level courses towards the B.Sc. in Computer Science and in Computer Studies
- *Computer Studies – Philosophy 395* is counted as a 200-level course towards the B.Sc. in Computer Science and in Computer Studies.
- Students whose interests span the three disciplines of Computer Science, Physics and Mathematics may be interested in the new single-major Honours program in Computing and Physics. Please consult the Computing and Physics section of the calendar for details.
- The individual options within the B.Sc. degree require a specific number of credits from the following categories.
 - A. Theory: *Computer Science 300H, 305H, 362H, 410H*
 - B. Systems: *Computer Science 335H, 337H, 431H, Computer Science – Physics 325H*
 - C. Data Management: *Computer Science 340H, 360H, 364H*
 - D. Applications: *Computer Science 347H, 355H, Computer Science – Mathematics 207H*

The single-major Honours B.Sc. program in Computer Science consists of 20 credits. At least 11 credits in Computer Science/Studies. The program must include:

- *Computer Science 102H, 104H, 202H, 204H, 230, 304H, 332H, 400, and Computer Science – Mathematics 260*
- one additional credit in Computer Science (COSC) at the 400-level
- four additional credits in Computer Science/Studies beyond the 200-level
- of the credits in Computer Science/Studies, at least nine in Computer Science (COSC), at least one in Computer Studies (COST), and at least 0.5 from each of categories A, B, C, and D listed above
- *Mathematics 110, 135H, and Mathematics – Statistics 155H*
- 14 science credits in the program as a whole

The joint-major Honours B.Sc. program in Computer Science consists of 19.5 or 20 credits (depending on the joint-discipline). At least eight credits in Computer Science/Studies. The program must include:

- *Computer Science 102H, 104H, 202H, 230, 304H, 400, and Computer Science – Mathematics 260*
- at least one additional credit in Computer Science (COSC) at the 400-level
- two additional credits in Computer Science/Studies beyond the 200-level
- of the credits in Computer Science/Studies, at least 5.5 in Computer Science (COSC), at least one in Computer Studies (COST), and at least 0.5 from each of categories B and C listed above
- *Mathematics 110, 135H, and Mathematics – Statistics 155H*
- 14 science credits in the program as a whole

The joint-major Honours B.Sc. program in Computer Studies consists of 19.5 or 20 credits (depending on the joint-discipline). At least seven credits in Computer Science/Studies. The program must include:

- *Computer Science 102H, 104H, 202H, 304H, and 400*
- half- additional credit in Computer Science (COSC) at the 400-level
- two additional credits in Computer Science/Studies beyond the 200-level
- 1.5 additional credits in Computer Science/Studies
- of the credits in Computer Science/Studies, at least five in Computer Science (COSC), at least one in Computer Studies (COST), and at least 0.5 from each of categories B and C listed above
- one credit from *Mathematics 110, 105H, 135H, or Mathematics – Statistics 155H*
- 14 science credits in the program as a whole

The joint-major General B.Sc. program in Computer Studies consists of 15 credits. At least five credits in Computer Science/Studies. The program must include:

- three credits in Computer Science (COSC)

- one additional credit in Computer Science/Studies beyond the 200-level
- one additional credit in Computer Science/Studies
- of the credits in Computer Science/Studies, at least two beyond the 200-level
- one credit from *Mathematics 110, 105H, 135H, or Mathematics – Statistics 155H*
- 11 science credits in the program as a whole

Bachelor of Arts program in Computer Studies

- 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 consists of 19.5 or 20 credits (depending on the joint-discipline). At least seven credits in Computer Science/Studies, including at least three credits beyond the 200-level.

The joint-major General B.A. program in Computer Studies consists of at least five credits in Computer Science/Studies, including at least two credits beyond the 200-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 Registrar's Office for a minor in Computer Science, if they have successfully completed the courses listed below.

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

- *Computer Science 102H, 104H, 202H, and 230*
- 1.5 additional credits in Computer Science
- one additional credit in Computer Science/Studies
- of the credits in Computer Science/Studies, at least two beyond the 200-level
- one credit from *Mathematics 110, 105H, 135H, or Mathematics – Statistics 155H*

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

Computer Science 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. No prerequisite. Excludes: *Computer Science 152H*.

Computer Science 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, and an introduction to data structures. Prerequisite: *Computer Science 102H*.

Computer Science 151H – Introduction to computer studies with applications

An introduction to general principles of computing and programming with practical experience in modern applications including spreadsheets and database management systems, as well as an introduction to programming. Topics include impact of computers on society, architecture/organization of computers, binary representation, I/O and secondary storage, operating systems, Basic programming and data communications. No prerequisite. Not available for credit in the Computer Science/Studies B.Sc. programs.

Computer Science 152H – Visual programming techniques

A service course in software engineering for students not intending to major in Computer Science/Studies. Problem analysis and computer program development using the Visual BASIC programming language. Included are procedures, arrays, strings, files, records, windows, and graphics. Prerequisite: *Computer Studies 151H* or equivalent. Not available for credit in the Computer Science/Studies B.Sc. programs. Excludes: *Computer Science 102H, 250H and Computer Studies 150H*.

Computer Science 202H – Intermediate computer science: 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; dictionaries and their implementation; sorting and searching techniques; algorithm complexity analysis. Prerequisite: *Computer Science 104H; Mathematics 110 or Mathematics 105H* highly recommended.

Computer Science 204H – Object-oriented programming

This course is to familiarize students with the object-oriented programming paradigm in C++ . Topics to be covered include classes, inheritance, friendship, constructors and destructors, class libraries, operator overloading, virtual functions and polymorphism, templates and exception handling. These topics will be augmented with case studies. Prerequisite: *Computer Science 202H*. Excludes *Computer Science 301H*.

Computer Studies 210H – Computing in the social and natural sciences and humanities

A survey of various approaches to data analysis using microcomputers. It introduces data and problems not usually encountered by Computer Studies joint majors and is also intended for non-Computer Studies students who intend to use computers for research in their disciplines. Prerequisites: One of *Computer Studies 101H, 151H, Computer Science 102H*, or equivalent.

Computer Science 230 – Computer organization

An investigation of digital logic, computer architecture, and assembly language programming. Topics will include boolean algebra, sequential logic, circuit design, busing, main memory, secondary memory, the central processing unit, and I/O organization. Prerequisite: *Computer Science 102H; Mathematics 130 or 135H* recommended.

Computer Studies – Philosophy 240H – Symbolic logic (See Philosophy)**Computer Science – Mathematics 260 – Discrete structures (See Mathematics)****Computer Studies 261H – Information systems for business and government**

An introduction to information systems based on digital information technology, including: administrative systems, records management, management information systems, and knowledge utilities. Organization theory, and the case study approach to problem solving. Using information technology for strategic competitive advantage in a knowledge-based economy. No prerequisite. Open to first-year students.

Computer Studies 262H – Structured systems analysis and design

Systems development methodologies for building information systems in organizations, including: conceptual analysis, requirements specifications, conceptual database design, systems analysis, and systems design. Diagramming techniques such as data flow diagrams and structure charts, are emphasized. Usability audits, user interface design, and project management for software development. Prerequisite: *Computer Studies 261H*.

Computer Studies 280H – Introduction to cyberspace

An introduction to the cultural implications of interactive digital technology, examining the convergence of computing, communications, public media, and entertainment industries. The course addresses current concerns such as the Web, multimedia design, virtual spaces and social domains. No prerequisite. Open to first-year students.

Computer Studies 283H – Introduction to multimedia

Cultural implications of multimedia within the convergence of television, home entertainment, computing, and data communication technologies. Participation in large, public knowledge utilities, such as the Web, including HTML and Java authoring. The significance of digital audio, digital video, and graphics design for electronic publishing. Prerequisite: *Computer Studies 280H*.

Computer Science 300H – Advanced data structures and algorithms

Topics include design of effective and efficient data structures and algorithms; advanced data structures and algorithm design paradigms; dynamic programming; algorithm analysis techniques; intractability. The course gives the student greater experience in program design in a language-independent setting and discusses pragmatic and mathematical aspects of program efficiency. Prerequisites: *Computer Science 202H; Computer Science – Mathematics 260*.

Computer Science 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. An important component is the preparation for the *Computer Science 400* group project. Prerequisites: *Computer Science 202H*, half credit from *Computer Science 300H, 305H, 332H, 337H, 340H*, and an additional *Computer Science* half-credit beyond the 200-level. (For the 2000–2001 academic year only, students may follow the prerequisites as indicated in the 1999–2000 academic calendar supplement: *Computer Studies 202H*, and any two of *Computer Science 300H, 305H, 332H, 335H, 337H, 340H, 355H, 360H, 362H*.)

Computer Science 305H – Theory of computation with application to compiler construction

A basic introduction to the theoretical foundation of computer science and its application to the design and implementation of compilers. Topics include finite automata, regular expressions, context-free grammars and Turing Machines. These topics are studied in the context of their application to lexical, syntactic and semantic analysis, and code generation of programming languages. Prerequisites: *Computer Science 202H, 230*, and *Computer Science – Mathematics 260*.

Computer Science – Physics 321 – Electricity and magnetism (See Physics)**Computer Science – Physics 325H – Electronics (See Physics)****Computer Science 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 such as UNIX, Windows NT, Windows 95/98 and DOS. Prerequisites: *Computer Science 202H* and *230*. Excludes *Computer Science 430*.

Computer Studies – Philosophy 337 – Cybermorality (See Philosophy)**Computer Science 337H – 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 system-level programming using C. Additional topics may include interprocess communication, remote procedure calls, sockets and client/server architectures. Prerequisites: *Computer Science 202H* and *230*. Recommended: *Computer Science 332H*.

Computer Science 340H – Database management systems

Database systems and their use in the management of data. History and development of data base theory. Hierarchical, network and relational data base structures. Prerequisite: *Computer Science 202H*. Excludes *Computer Studies 348H*.

Computer Science – Mathematics 341 – Linear & discrete optimization (See Mathematics)**Computer Studies – Philosophy 341H – Logic and logical theories (See Philosophy)****Computer Studies 345H – Social impact of computing technology**

Applications, use and impact of computers and information technology on societies. Topics covered are chosen from the following: historical impact of computers and automated technology; ethical, legal and privacy issues for software, software development and computerized information storage and flow; software risks; computer technology in medicine, law and education. Prerequisite: One of *Computer Studies 101H, 150H, 261H* or *280H*.

Computer Science 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: *Computer Science 202H* and *Mathematics – Statistics 155H* or equivalent.

Computer Studies 348H – Data modelling in information systems development

Database design for information systems 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 diagramming techniques – both for entity-relationship modelling, and for object-oriented analysis and design. Newer forms of information systems, such as intranets, groupware, and knowledge utilities are discussed from the data modelling perspective. Prerequisite: *Computer Studies 262H*. Excludes *Computer Science 340H*.

Computer Studies 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: One-and-a-half courses in Computer Studies/Science.

Computer Science 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 may include knowledge representation, reasoning, reasoning with uncertain knowledge, expert systems, logic programming languages, Prolog, OPS5, and functional programming languages, LISP. Prerequisite: *Computer Science 202H*.

Computer Science 360H – Advanced systems theory

A comprehensive overview of the systems studies field, including general systems theory, cybernetics, and system dynamics. Systems analysis as a modelling discipline, with “limits-to-growth” global models and organizations as artificial lifeforms used as illustrations. Significance of holistic thinking and the systems approach to problem solving is emphasized. Prerequisite: *Computer Studies 261H*; *Computer Studies 350H* recommended.

Computer Science 362H – Object-oriented analysis and design

Systems analysis and systems modelling using the object-oriented conceptual framework. 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. Prerequisites: *Computer Studies 262H* or *Computer Science 104H*.

Computer Studies – Anthropology 363H – Computer applications in anthropology

(See *Anthropology*)

Computer Science 364H – Data processing, file structures, and legacy systems

Introduction to file structures and processing. Use of COBOL for data processing, including use of advanced language features and modular software engineering techniques. Efficiency in data management. Prerequisites: *Computer Science 202H*; or both *Computer Studies 262H* and *Computer Science 102H*.

Computer Science 400 – Software engineering: theory and project

This course combines theory and project work to examine software engineering methodologies for the development of large software projects. Topics covered include: requirements analysis and feasibility studies; requirement specification; software design; implementation and installation; testing; system maintenance; impact assessment; quality assurance; project management; and CASE tools. Prerequisites: *Computer Science 304H*; a half-credit from *Computer Science 332H*, *337H*, *340H*; and an additional Computer Science half-credit beyond the 200-level. (Note: For the 2000 – 2001 academic year only, students may follow the prerequisites as indicated in the 1999 – 2000 academic calendar supplement: *Computer Studies 304H* and one credit from *Computer Science 204H*, *332H*, *337H*, *340H*, *362H*).

Computer Science – Mathematics 405 – Logic and computability (See *Mathematics*)

Computer Science 410H – Comparative programming languages

Functional, declarative, and imperative programming languages, their structures as intellectual objects, and their future uses. General language design goals, data and control abstractions and structures, progressing from lower level assemblers to higher block structures languages (Ada), special purpose languages (such as Modula, FORTH, LISP), to concepts of verifiable and applicative languages, large programs, predicative programming and program transformation. Prerequisite: *Computer Science 202H* and one *Computer Science credit beyond the 200-level*.

Computer Science 431H – Computer networks

This course provides the student with a detailed examination of computer networks, with an emphasis on current trends. 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 protocols, wireless networks, and ATM networks.

Prerequisites: *Computer Science 332H*, and a Computer Science half-credit beyond the 200-level. Recommended: *Computer Science 337H*.

Computer Science 432H – Distributed systems

The objective of the course is to give students a thorough examination of issues pertaining to distributed systems. Topics to be covered include architectures for distributed systems, data communication, remote procedure calls, client/server communication, distributed file systems, concurrency control, and resource management.

Examples will be drawn from contemporary distributed systems such as LOCUS, Amoeba, Mach, and Unix United. Prerequisite: *Computer Science 332H* and a Computer Science half-credit beyond the 200-level. Recommended: *Computer Science 337H*.

Excludes *Computer Science 430*.

Computer Science 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 super-pipelined architectures. Other topics to be covered include multiprocessor architectures, advanced issues in caching, parallel algorithms, and a variety of other current architectures. Prerequisite: *Computer Science 332H* and a Computer Science half-credit beyond the 200-level.

Computer Science/Studies 490, 491H, 492H – Advanced reading course

Students are required to submit a course proposal and have it approved by the Curriculum Committee of the program prior to enrolling.

Computer Studies 496H – Special topic: Distributed digital multimedia: intranets and groupware

Using distributed multimedia systems to facilitate knowledge sharing and collaborative groupwork. Intranets, extranets, project management, workflow, and groupware will be discussed. Techniques for constructing digital multimedia such as music, text, animation, and digital voice and video editing will be examined. Prerequisite: *Computer Studies 283H*.

Computer Studies 497H – Special topic: Advanced topics in information systems: e-commerce

Corporate information systems are merging with web technology to enable organizations to compete in a knowledge-based economy. To explore new developments, the major part of the course focuses on project management and project work, including multimedia know-how for e-marketers. A real e-commerce application will be created and released live on the Web. Prerequisite: *Computer Studies 262H*. Recommended: *Computer Studies 496H*.

COMPUTING AND PHYSICS

Program Co-ordinators

Chair of Computer Science/Studies

Richard T. Hurley, B.Sc. (NEW BRUNSWICK), Ph.D. (WATERLOO)

Chair of Physics

James W. Jury, M.Sc., Ph.D. (TORONTO)

Professors

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

This program is designed to meet the needs of students interested in electronic, hardware, and interfacing aspects of computers, which are based on fundamental principles of physics and mathematics.

Note

- There is no minor in Computing and Physics.

Bachelor of Science program in Computing and Physics

- The Honours program in Computing and Physics is a sequence of courses offered by the Computer Science/Studies Program, the Mathematics department, and the Physics department, that compose an integrated whole. It is not available as a joint-major degree.
- For information on individual courses see calendar entries for Computer Science/Studies, Mathematics, and Physics.

The single-major Honours program consists of 20 credits. At least 5.5 credits in Computer Science/Studies, five in Mathematics, and 5.5 in Physics, including:

- *Computer Science* 102H, 104H, 202H, 230, 400, 431H, and 432H
- one credit from *Computer Science* 332H, 337H, 340H, or 347H
- *Mathematics* 110, 135H, 155H, 200, *Mathematics – Computer Science* 260, *Mathematics – Physics* 205H and 305H
- *Physics* 100, 202H, 203H, 400, *Physics – Computer Science* 321 and 325H
- *Physics* 420, 430, or 440

CULTURAL STUDIES

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Professor and Chair of the Program

I. McLachlan, M.A. (OXFORD)

Professors Emeriti

D.F. Theall, B.A. (YALE), M.A., Ph.D. (TORONTO); D. Smith, M.A., D. PHIL. (OXFORD)

Professors

R.J. Dellamora, A.B. (DARTMOUTH COLLEGE), B.A. (CAMBRIDGE), M.PHIL., Ph.D. (YALE);

J. Fekete, M.A. (MCGILL), Ph.D. (CAMBRIDGE) (*on leave 2000-01*); S. Kane, B.A. (CARLETON), M.A., Ph.D. (TORONTO); A. Wernick, M.A. (CAMBRIDGE, TORONTO) Ph.D. (TORONTO)

Associate Professors

Z. Baross, B.A. (U.B.C.), M.A. (LONDON), Ph.D. (AMSTERDAM) (*on leave 2000-01*); J. Bordo, B.A.

(MCGILL, ALBERTA), M.A., M.PHIL., Ph.D. (YALE) (*on leave Winter session 2001*); A. O'Connor, B.A.

(TRINITY COLLEGE, DUBLIN), M.A., Ph.D. (YORK); V. Hollinger, M.A. (CONCORDIA), M.ED.

(NEWCASTLE-UPON-TYNE), Ph.D. (CONCORDIA); Y. Thomas, B.A. (UQAM), M.A., Ph.D. (MONTRÉAL)

Assistant Professor

E. Waterman, Mus. Bach. (MANITOBA), M.A., Ph.D. (CALIFORNIA S.D.)

Adjunct Faculty

D. Bateman, M.A. (TORONTO); M. Blyth, B.A. (TORONTO) M.A. (YORK); V. de Zwaan, B.A. (TRENT),

M.A. (MCGILL), Ph.D. (TORONTO); M. el Komos, M.A. (CAIRO); A. Hearn, M.A. (SIMON FRASER);

M. Hoechsmann, B.A., M.A. (SIMON FRASER), Ph.D. (O.I.S.E. TORONTO); J. Plecash, B.A., M.A.

(BRITISH COLUMBIA); K. Walter, B.A., (QUEEN'S), B.F.A., (VANCOUVER), M.F.A., (MONTRÉAL); R.

Wright, B.A. (TRENT), M.A., Ph.D. (QUEEN'S)

Associated Faculty

Sociology, S. Katz

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 Registrar's Office 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

- The following courses are recommended for first-year students who are considering a major in Cultural Studies: *Classical Literature 100*, *English 100*, *History 120*, *Philosophy 101*, *Sociology 100*, and any of the 100-level language courses in the department of Modern Languages and Literatures.
- Cultural Studies majors may pursue a particular concentration within the different cultural areas that the program draws together (e.g., Comparative Literature; Fine Arts; Performing Arts; Social and Cultural Theory).
- Cultural Studies majors are required to choose at least two credits from each of the following categories.

A		B	
205	305	211	315
225	322	216	321
230	325	217	329
231	350	222	332
235	355	226	345
245	356	229	346
246	370	260	375
250	381	270	380
255		280	385
		311	395

- 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 the permission of the instructor.
- 400-level courses are normally limited to students in the fourth year of the Honours Cultural Studies program. However, Cultural Studies majors may petition the program to enrol in a 400-level course as part of a General program.
- Reading courses are available as *Cultural Studies 390* or *490*. Registration in reading courses is contingent on the permission of the instructor and of the chair of the program before Early Registration. The deadline for submission of an outline is March 31 of the year previous to undertaking the course. Students wishing to take more than one *Cultural Studies 390* or *490* reading course must petition the chair of the program.
- For detailed information about special topics courses, students should attend the Honours Information Session scheduled in the Spring or visit the program office at that time for an Honours Information Brochure.

The single-major Honours program consists of 19 credits. At least nine credits in Cultural Studies, including:

- *Cultural Studies 100*
- two credits from each of categories A and B
- four additional credits
- at least two of the credits in Cultural Studies at the 400-level

The joint-major Honours program consists of 19 or 19.5 credits (depending on the joint-discipline). At least seven credits in Cultural Studies, including:

- *Cultural Studies 100*
- two credits from each of categories A and B
- two additional credits
- at least two of the credits in Cultural Studies at the 400-level

The single-major General program consists of 15 credits. At least six credits in Cultural Studies, including:

- *Cultural Studies 100*
- two credits from each of categories A and B
- one additional credit

The joint-major General program consists of 15 credits. At least five credits in Cultural Studies, including:

- *Cultural Studies 100*
- two credits from each of categories A and B

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

Cultural Studies 100 – Introduction to the study of modern culture

Introduction to the interpretation and foundations of modern culture. Looks at the problem of how to make sense of art works and other forms of cultural expression, both as texts and as practices in a context. What distinguishes twentieth-century culture from, and what connects it to, the tradition of modern culture as a whole? Lecture and seminar, weekly. Field trip and reading package fee: \$40. (Excludes *Cultural Studies 200*.)
Staff

Cultural Studies 211 – Drawing

An introduction to basic ideas and skills in the visual arts. The course will deal with concepts and realities of form and the making of signs and symbols in two and three dimensions. Lecture and studio instruction four to six hours weekly. Open to Cultural Studies majors and students with the pre- or co-requisite *Cultural Studies 216, 217 or 315* or permission of the Chair of the program. Art materials fee: \$65. Enrolment limited to 20. *Staff*

Cultural Studies 216 – (Mostly) Western art, the monument and the picture

Considers such monumental vestiges as the glyph site, the temple, the cathedral, the gallery and the current “heritage” site as preparations for exploring the picture and its extraordinary emergence in Renaissance art and science and how this kind of picturing became and continues to be the predominant mode of cultural transmission inseparable from and defining the condition of “modernity.” Field trip fee: \$40. Students may take the course for double credit by taking *Cultural Studies 217* (workshop) in conjunction with *Cultural Studies 216*. *J. Bordo*

Cultural Studies 217 – (Mostly) Western art, the monument and modernity

Workshop. The course follows the agenda of *Cultural Studies 216*. A workshop course, it will permit students to devise artmaking projects that give expression, articulate, and make materially discursive the issues discussed in *Cultural Studies 216*. Co-requisite: *Cultural Studies 216*. Studio space provided with regular group discussions. Workshop fee: \$75. *J. Bordo*

Cultural Studies 222 – Culture in the novel

A study of the nineteenth-century novel as a focus for current theories of culture, gender and narrative. Texts for discussion will include works by Balzac, Sand, the Brontës, Eliot, Flaubert, Dostoyevsky, Tolstoy and Huysmans. Particular attention will be given to the thought of Lukacs, Bakhtin, Barthes and Foucault. Lecture, seminar weekly. *Staff*

Cultural Studies 225 – Oral narrative

The world of story, improvisation and memory. Concepts, materials and exercises for the study of oral tradition, mythic thought, the wondertale and the art of the story in their ancestral and postmodern uses. With an emphasis on the First Literatures of North America and with a concern for voice in told and written story, the course involves creative experience in the telling, writing and critical framing of narrative. This course is especially useful to individuals with a background in creative writing or from a First Peoples’ or other oral literary tradition. Offered as a full course in Term I. *S. Kane*

Cultural Studies 226 – Storytelling workshop

An exploration of the world of story by enacting the storyteller’s relationship to everyday discourse, oral tradition, literary models, and to the community that survives by listening. The course offers experience in the improvisation and performance of all kinds of narrative from the ancestral tale to postmodernist self-writing. *Staff*

Cultural Studies – English 229 – Science fiction

Introduction to the history, theory, and representative works and authors, from Mary Shelley and H.G. Wells to Philip Dick, Ursula Le Guin, Marge Piercy, and William Gibson. Will examine alternate worlds, human destiny stories, space adventure, stories of alien encounters and non-contemporary earth life, new capacities, new technologies, or new belief systems. Two hours weekly. *V. Hollinger*

Cultural Studies – Native Studies 230 – An introduction to the key concepts and issues in post-colonial theory (See Native Studies)

Cultural Studies – Philosophy 231 – Feminist philosophy (See Philosophy)

Cultural Studies 235 – Mass media and society

Introduction to the history, sociology and critical interpretation of contemporary mass-communicated culture, both as an overall formation and with reference to such specific elements as the newspaper press, advertising, network TV and recorded popular music. Two-hour lecture and seminar weekly. (Excludes *Cultural Studies – Sociology 240.*)

A. O'Connor

Cultural Studies 245 – Music and society

An introduction to music as cultural practice, exploring formulations of the relationship between music and society offered by ethnomusicology, sociology, semiotics, and feminist theory. Emphasis is placed on the development of listening skills through engaging with a variety of musical texts/practices from Western art music, popular music, and world music traditions. No formal background in music required. Lecture and seminar weekly. Field trip fee: \$45. E. Waterman

Cultural Studies 250 – Civilization and human nature

An introduction to the thought of several of the founders of modern social and cultural theory including Marx, Nietzsche and Freud. Such topics explored as ideology and illusion, reason and eros, individualism and alienation, and the idea of progress. One hour lecture, seminar weekly. A. Wernick

Cultural Studies 260 – The making of the modern body

Focuses upon modernity's relation to the body as both project and work site; examines such contemporary obsessions as the expression and experience of (post)modern subjectivity. Diverse cultural and theoretical materials explore the burgeoning of body-images that exercise contemporary cultural imagination in various media. Writers in feminist criticism, film theory, psychoanalysis and social theory will explore the modern body as a site of power (relations), desire, signification, subjection and subjectification. Two-hour lecture and one-hour seminar weekly. Z. Baross

Cultural Studies 270 – History and theory of theatre

An introduction to theatre as a performing art. Examines the evolution of European theatrical practice and dramatic theory from Classical Greek tragedy to late nineteenth century naturalist drama. Topics include acting styles, theatre design and architecture, the audience, and the institution of theatre in relation to religion, morality and politics. Two hours weekly. V. Hollinger

Cultural Studies 280 – History and theory of the cinema

An introduction to critical interest in the cinema through texts that represent film movements and major trends in film theory. A selection of films from around the world, and critical studies (Bazin, Eisenstein, Metz, Mulvey, Doane, Silverman, Williams) on the medium, apparatus, institution and spectator, will help us consider a technologized visuality, the production of meaning and pleasure, and the politics of criticism. Weekly films, lectures and seminars. Field trips fee: \$10.

Cultural Studies 305 – The aesthetic avant-garde

The course presents and examines tendencies, positions and actions of the historical avant-garde from 1918 to 1968. It discusses and problematizes such movements as Dada, Surrealism, COBRA and the Situationist International through each movement's criticism of everyday life. Lecture, seminar weekly. J. Bordo

Cultural Studies 311 – Visual arts studio: form, process, object (and image)

Introduction to the relationship between traditional ideas of form and dynamic process-oriented strategies in two and three dimensions. Emphasis on the free exploration of material and concepts; alternative directions and implications of any given problem; questions of scale and 'richness'; the development of active creative strategies. Open to Cultural Studies majors and students with the pre- or co-requisite *Cultural Studies 216, 305, or 315*, or permission of the Chair of the program. Enrolment limited to 20. Art materials fee: \$65.00. Staff

Cultural Studies 315 – History and theory of modern art

“Why paint?” is the principal question that this course seeks to address. How painting came to be put in question, came to be endangered at the end of the twentieth century, calls for accounts, genealogies of how it came to be constituted as the model for and most precious object of art. Our focus, post-Renaissance, begins at the mid-nineteenth century when claims for the autonomy of art became inextricably meshed with discourses about the “modernity” of art. Manet, Baudelaire and the emergence of the avant-garde; Paris circa 1860, Cezanne into analytic cubism 1900–1908, Duchamp in Munich 1910 are the three episodes in the early history of modern painting that will provide the setting for addressing late high modernist, minimalist and contemporary art practices. Field trip fee: \$45. *J. Bordo*

Cultural Studies – English 321 – Literature and society (See English Literature)**Cultural Studies 322 – Experimental fiction**

A course in the work of some of the major twentieth-century writers of experimental fiction, ranging from Proust, Joyce, and Kafka to Pynchon and Borges. Individual works will be related to various theories of narrative which seek to explain and contextualize them. Weekly lectures and seminars. *Staff*

Cultural Studies 325 – Literary and critical theory

A study of ideas about the nature and function of literature, interpretation, and evaluation. The spectacle and background of competing contemporary theoretical models will be considered through such figures as Plato and Aristotle, Sidney, Coleridge and Arnold, Frye and McLuhan, Lukacs and Adorno, Barthes, Derrida and Foucault, Kristeva and Spivak. Two-hour seminar weekly.

Cultural Studies – English 329 – Utopia (future fiction)

A study of the speculative social imagination in utopian and anti-utopian literature from Plato to contemporary science fiction. Such topics as sexual politics, technology, communication, psychic evolution, and narrative form will be examined from More to Huxley, Orwell, Le Guin, Delany, Brunner, Dick, Lem, Piercy and Russ. Weekly lecture and seminar.

Cultural Studies – Comparative Development Studies 332 – Media and development

Issues of global media, cultural imperialism and alternatives such as Third Cinema and community radio. Considered in the context of Latin American cultural studies: debates about the lettered city, a hidden civilization, postmodernism, cultural memory and popular culture. Three-hour seminar weekly. *A. O'Connor*

Cultural Studies 345 – World music

Issues of globalization, hybridity and musical ethnography are explored through traditional musics and their current popular offspring. World music intersects with post-colonial and post-modern theories as well as concerns about the ethics of production. The course will offer a detailed examination of selected musics which will change each year, including Africa and the diaspora, Asia and the Americas. Prerequisite: CU245 or permission of the instructor. Field trip fee: \$45. *E. Waterman*

Cultural Studies 346 – Audio production and performance workshop

This is a workshop in which students will learn basic practical sound production as well as performance skills relating to music. The production aspect of the workshop will address such areas as recording technologies, radio art, and sound ecology. Performance techniques will include vocal and instrumental work, conducting, stage presentation, ear training, and composition. Students will develop their musical skills in a supportive environment that encourages rigorous technique and creative exploration. There will be opportunities for both ensemble work and in-depth solo projects. An underlying theme of the course is social engagement. We seek not only to gain practical skills but also to examine their effectiveness in communicating our ideas and values. Pre- or co-requisite: *Cultural Studies 246 or 345 or permission of the program.* Workshop fee: \$40. *E. Waterman*

Cultural Studies – Anthropology 350 – Modern cultural theory

Concepts of community and the figure of the exile. Taking an historical perspective, the course traces the concept of community and the figure of the exile (or alien, immigrant, madman, Jew, woman) in Plato, Sophocles, Freud, Arendt, Irigaray, Nietzsche, Foucault, Bataille, Derrida, Blanchot, Nancy. It studies structures and practices of exclusion/inclusion and reflects on origins of the crisis of the modern theoretical community and its discourse. Three hours weekly.

Cultural Studies – English 355 – Sexuality and textuality

A course in the study of how dissident sexualities are constituted in texts, especially literary ones. Topics included this year are: queer reinscriptions of Renaissance English drama; the invention of the modern homosexual; and contemporary performance. Three hours weekly. *R. Dellamora*

Cultural Studies – Canadian Studies 356 – The wilderness, modernity and the sublime

An exploration of the symbolics of “the wilderness.” Readings, ranging from scripture to explorer, travel narratives, and histories, to fictive narratives, contemporary theory and such thinkers of the sublime as Cusanus, Descartes, Rousseau, Burke, Kant, Melville, will be considered in the visual context of European and “new world” landscape art, modernist painting and contemporary environmental art practices. This course meets three times per month. Field trip fee: \$45. *J. Bordo*

Cultural Studies 370 – Theatre in the twentieth century

Investigates the changing roles of playwright, performers and audience with particular attention to the political implications of the theatre’s social function. The theories and practices of Stanislavski, Brecht, Artaud, Pirandello, Beckett, Weiss, Soyinka, Boal and Churchill will be examined, so as to provide a basis for discussing the problems that face contemporary theatre workers. Students will be expected to attend a number of theatrical performances. Seminar weekly. Field trip fee: \$45. *I. McLachlan*

Cultural Studies 375 – Theatre workshop: staging ideas

A practical course in modern acting with a focus on methods of performance in works that dramatize ideas and the conflicts between them. Pre- or co-requisite: *Cultural Studies 270 or 370* or permission of the Chair of the program. Workshop fee: \$50. Enrolment limited to 20. Four hours weekly. *Staff*

Cultural Studies – Philosophy 380 – Text and image in visual culture

From the age of our visual culture, the course turns to the relation between the word and the image as discussed in cultural theory and made manifest in literature, painting and the cinema. Critical texts by Panofsky, Barthes, Metz, Foucault, Mitchell, Deleuze, amongst others, will be supplemented by the films and writings of such film directors as Peter Greenaway, Jean-Luc Godard and Sergei Eisenstein. Weekly lectures, biweekly seminars and occasional screenings.

Cultural Studies – Women’s Studies 381 – World cinema

A study of cinema in historical and aesthetic context. Focus for 2000–2001: *Chinese Cinemas*. Critical texts (Chow, Tan, Yau, Marchetti, Kristeva, Browne) concerning film as (auto) ethnography, and a selection of films from the People’s Republic of China, Taiwan, and Hong Kong, will help us explore the contested terrains of home and exile, gender and nationhood, and hyphenated identities. Weekly films, lectures, and seminars. Field trip fee; \$10. (Interested students who have previously taken *Cultural Studies 381* for credit may contact the program for special consideration.)

Cultural Studies 385 – Film workshop

Pre- or co-requisite: *Cultural Studies 280 or 381*. Workshop fee: \$50. *Staff*

Cultural Studies 387 – Community based education

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.”

Cultural Studies 401/402D – Honours thesis

This is a major research project in which instruction in research methods leads to a thesis of about 15,000 words. It counts as two credits in Cultural Studies (*CUST 402*), or combines one credit in Cultural Studies with one credit in the other discipline in a joint major (*CUST 401*). In either case, a double fee is charged. The program deadline for a thesis abstract and bibliography (signed by the thesis supervisor) is March 31 of the year prior to the student’s entry to the fourth quarter of the Honours program.

Cultural Studies 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. Cultural Studies 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. *S. Kane*

Cultural Studies – English 425 – Advanced studies in literary and critical theory

The nature and function of literature, criticism and theory, from Greek mimesis to contemporary post-modernism, intertextualism, and pragmatism. A central focus on the emergence and decline of modernist Anglo-American theories of literary and imaginative autonomy. Examination of such theoretical models as Plato and Aristotle, Coleridge, Arnold and Pater, Eliot, Richards, Frye and McLuhan, Fish and Tompkins, Barthes and Foucault, and selected feminist writers. Two-hour lecture-seminar weekly. (Excludes *Cultural Studies – English 325.*) *J. Fekete*

Cultural Studies 435 – Advanced topics in mass media and popular culture

Social movements and avant-garde media. An overview of issues in identity politics through the writings of Frantz Fanon and others. Underground media and culture considered as sites for the emergence of complex social identities. Two-hour seminar weekly. *A. O'Connor*

Cultural Studies – Sociology 441H – The sociology of culture and knowledge

(See Sociology)

Cultural Studies 450 – The crisis of modern critical discourse: community, friendship, love and exile

The course introduces students to a close reading of texts in critical/cultural theory, in the context of contemporary culture and political life. Each year, lectures and seminars turn to a theme of some political/ethical urgency, which they then explore from a perspective broadly designated as "theoretical." The course utilizes texts ranging through philosophy, literature, literary theory and psychoanalysis. In the past, "Testimony, witnessing the holocaust," and "History: science, narrative and event," were among the themes explored. This year we will take up the question of "Community: (structures) of exclusion/inclusion, friendship and love, the figure of the Other and the Exile." Guided by the political writings of Michel Foucault and Hannah Arendt, the work of the Italian theorist Giorgio Agamben, the French feminist and exile Julia Kristeva, as well as texts by Georges Bataille, Jean-Luc Nancy and Jacques Derrida. Two-hour seminars weekly. *Z. Baross*

Cultural Studies 470 – Advanced studies in theatre and the performing arts

Special topics, which vary from year to year, have included: recent experimental directions taken by traditionally marginalized groups; parody and performance; the work of Bertolt Brecht; and feminist, gay and lesbian, and (post) colonial theories of subjectivity and narrative. Most recently, the focus was on performance theory, especially of contemporary forms of theatrical expression such as performance art, the monologue, and revisionary approaches to conventional dramatic genres. Pre-requisite: *Cultural Studies 270 or 370*. Three-hour seminar weekly. *V. Hollinger / I. McLachlan*

Cultural Studies – Women's Studies 480 – Feminist film theory

A critical consideration of Cinema and Film Studies as sites in which to explore or to enact feminist intervention. Feminist contributions to cultural theory, film studies, and cinema (Dubois, Russo, de Lauretis, Kaplan, Silverman, Gorris, Treut, Von Trotta) will help us consider the representation of the feminine body, the orchestration of the female voice, and the organization of woman's desire in theory and in cinema. Field trip fee: \$10. Excludes *Cultural Studies – Women's Studies 495S*.

Cultural Studies 495 – Special topics in cultural studies

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

Cultural Studies 4952 – Special Topic: Exchange, transgression and the symbolic

Examines the social and cultural theory of Georges Bataille, both in his own writings and as developed or commented on by contemporary thinkers like Baudrillard, Derrida and Nancy. The focus will be on such themes as general versus restricted economy, gift and sacrifice, eroticism, ecstatic community, and the cultural contradictions of “late” capitalism. Two-hour seminar weekly. *A. Wernick*

Cultural Studies 4953 – Special Topic: The subject of the text

The course draws on resources within fiction and post-structuralist realist theory to consider how subjects are sexed within and as readers of literary texts. Fiction by Wilde, E. M. Forster and Jeanette Winterson will be read in relation to writing by Roland Barthes, Michel Foucault and Monique Wittig among others. Weekly lecture and seminar. *R. J. Dellamora*

Cultural Studies 4956 – Science fiction and contemporary technoculture

The course will look at some examples of contemporary science fiction (by writers like Richard Calde, Greg Egan, William Gibson, Gwyneth Jones, Elizabeth Hand, Jeff Noon, Bruce Sterling and Jack Womack) to explore the metaphorical relationship between science fiction and its cultural/historical present. At the same time, it will examine the speculative nature of some influential theoretical writings that use the imagery of science fiction in their own attempts to envisage the (postmodern) present (by, for example, Jean Baudrillard, Scott Bukatman, Jacques Derrida, Donna Haraway, N. Katherine Hayles, Fredric Jameson, and Allucquere Rosanne Stone). This course builds, in part, upon *Cultural Studies – English 229*, which provides an historical overview of the literature of science fiction. Three-hour seminar weekly. *V. Hollinger*

For more information about these and other 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.

READING COURSES

Reading courses are available as *Cultural Studies 390* or *490*. Registration in reading courses is contingent on permission of the instructor and the Chair of the program in advance of early registration. The **deadline for submission of an outline is March 31** of the year previous to undertaking the course.

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.

Diploma Programs are available in Canadian Studies (see p. 117), Native Management and Economic Development (see p. 210), and Native Studies (see p. 212)

ECONOMICS

Telephone: (705) 748-1331

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Associate Professor and Chair of the Department

S. Choudhry, M.A. (CHITTAGONG, Bangladesh), M.A. (McGILL), Ph.D. (MANITOBA)

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)

Professors

D.C.A. Curtis, M.A. (QUEEN'S), Ph.D. (McGILL) (*on leave Winter session*);

H.M. Kitchen, M.A. (McMASTER)

Associate Professors

M. Arvin, B.Sc. (LONDON), M.Phil. (OXFORD), Ph.D. (QUEEN'S) (*on leave Fall session*); T. Drewes, B.A. (LAKEHEAD), M.A., Ph.D. (QUEEN'S); J. Muldoon, B.Sc. (BROCK), M.A. (GUELPH), Ph.D. (McMASTER)

Assistant Professor

B. Cater, M.A. (TORONTO), Ph.D. (YORK)

Notes

- A standing of C- (60%) or higher in *Economics 101H* and *102H* is a prerequisite for all upper level Economics courses, with the possible exception of cross-listed courses, for which students should check the prerequisites.
- Courses in Economics at the 200-level, with the exception of *Economics - Administration 220H* and *225H*, are considered equivalent to courses at the 300-level in order to satisfy the University requirement for at least seven credits beyond the 200-level in the Honours program and at least four in the General program.
- Courses in Economics fulfilling University science course requirements for the B.Sc. are marked (Sc) in the individual course descriptions.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Registrar's Office 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

- The Economics department offers both a B.A. and a B.Sc. degree.
- *Economics - Administration 220H* and *225H* fulfill the requirement for one credit in Mathematics for the B.Sc. in Economics. Courses of equivalent content may be substituted with the permission of the chair of the department.
- With departmental permission, one credit in Economics at the 300-level may be substituted for the unspecified Economics credit at the 400-level in the single-major program; for the joint-major program the equivalent substitution is 0.5 credit.
- It is strongly recommended that students in the joint-major program complete *Economics - Administration 220H* and *225H* before fourth year.
- It is strongly recommended that students in the single-major program complete *Economics 320H* and *325H* before fourth year.
- *Economics 401H* may be substituted for *Economics 402H* and *403H* with departmental permission.

The single-major Honours program consists of 20 credits. At least 10 credits in Economics. The program must include:

- *Economics 101H, 102H, 200, 201, 320H, 325H, 400H, 402H, 403H, 405H, Economics - Administration 220H* and *225H*
- one credit in Economics at the 400-level
- two additional credits in Economics
- for the B.Sc., 14 science credits in the program as a whole

The joint-major Honours program consists of 19.5 or 20 credits (depending on the joint-discipline). At least 7.5 credits in Economics. The program must include:

- *Economics 101H, 102H, 200, 201, 400H, 402H, 403H, 405H, Economics - Administration 220H* and *225H*

- half-credit in Economics at the 400-level
- one additional credit in Economics
- for the B.Sc., 14 science credits in the program as a whole

The single-major General program consists of 15 credits. At least six credits in Economics. The program must include:

- *Economics 101H, 102H, 200, 201, Economics – Administration 220H and 225H*
- two additional credits in Economics
- for the B.Sc., 11 science credits in the program as a whole

The joint-major General program consists of 15 credits. At least five credits in Economics. The program must include:

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

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

Economics 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. Competition policy and tax policy are examined. Selected aspects of international markets, trade and trade policy are also considered. Lectures three hours weekly. *Staff*

Economics 102H – Introductory macroeconomics (Sc)

An introductory treatment of gross domestic product, employment, unemployment, prices and inflation based on current models of national income determination. The Canadian banking system, monetary policy, the role of government and fiscal policy are examined. Selected aspects of international trade, the balance of payments and exchange rates are included. Lectures three hours weekly. *Staff*

Economics 200 – Microeconomic theory and its applications (Sc)

An examination of problems of demand and supply, market equilibrium, market structure, income distribution and economic welfare. A comprehensive treatment of the theoretical techniques used to deal with problems of resource allocation and applications of those techniques. Develops skills necessary for advanced work in economics. Two lectures weekly, seminar fortnightly. *J. Muldoon*

Economics 201 – Macroeconomic theory and policy (Sc)

A study of the performance of the total economy in terms of output (GDP), employment and inflation, including the effects of monetary, fiscal and exchange rate policies. Current macroeconomic models and debates about structure, behaviour and policy effectiveness are explored. Three lectures weekly, workshop fortnightly. *D. Curtis and staff*

Economics 217H – Canadian tax policy

Efficiency and equity criteria will be emphasized in evaluating personal income taxation, corporate income taxation, commodity taxation, local government taxation and income transfers. Two lectures weekly, seminar fortnightly. *H. Kitchen*

Economics – Administration 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. Three hours weekly, tutorial fortnightly. *T. Drewes*

Economics – Administration 225H – Introduction to mathematics for economics and management (Sc)

Topics include partial and general equilibrium, elementary linear algebra, elementary calculus, basic optimization theory, and comparative static analysis. These tools are integrated with and applied to micro and macroeconomic theory and managerial economics. Three lectures weekly, workshop fortnightly. *J. Muldoon*

Economics – Comparative Development 231H – 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. Two lectures weekly, seminar fortnightly. (Excludes *Economics 330*.) *S. Choudhry*

Economics – Canadian Studies 260H – Canadian economic development

The application of economic analysis to the study of Canadian development to 1929. *The Staples thesis, the colonial economies, Confederation, the national policy, prairie settlement, industrialization, regional income disparities, and the development of money, capital and labour markets.* Two lectures weekly, seminar fortnightly. *Staff*

Economics – Canadian Studies 261H – The Canadian economy

Problems and policies in Canadian economic development since 1929. Models of long-run income growth and short-run depression/ recession, government policy on trade, foreign investment, macroeconomic stabilization and social welfare, and the economics of federal-provincial relations. Two lectures weekly, seminar fortnightly. *Staff*

Economics 301H – Monetary theory (Sc)

An examination of the core propositions of monetary theory followed by an intensive examination of monetary and exchange rate policy issues in both Canadian and international contexts. Prerequisite: *Economics 201* or permission of the instructor. Two lectures weekly, seminar fortnightly. *D. Curtis*

Economics 302H – Monetary institutions and policy

An exploration of money, banking, monetary control, financial intermediation, and financial markets in Canada. Recent Canadian experience with monetary, financial and exchange rate policy is examined. Two lectures weekly, seminar fortnightly. *Staff*

Economics 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 (trade blocs). The role of multinational corporations in international trade and investment. Two lectures weekly, seminar fortnightly. (Support course for Comparative Development Studies). *Staff*

Economics 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 and the world economy, and the evolution, management and reform of the international financial system. Two lectures weekly, seminar fortnightly. (Support course for Comparative Development Studies). *Staff*

Economics 316H – Government expenditure analysis (Sc)

Efficiency criteria will be emphasized in the analysis of public goods, externalities, natural monopolies, cost-benefit analysis, voting behaviour and the structure and growth of government expenditures in Canada. Two lectures weekly, seminar fortnightly. *H. Kitchen*

Economics 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: *Economics-Administration 225H, 220H* (or equivalents). Pre- and co-requisites: *Economics 200, 201*, or permission of the instructor. Three lectures weekly, seminar weekly. *B. Cater*

Economics 321H – Applied econometrics (Sc)

This course integrates economic theory, econometric technique and practical applications in empirical economics. The emphasis in this course is on the issues which arise in building empirical models. Students will gain practical skill in the development of empirical models of the economy. Prerequisites: *Economics 320H*. Three hours weekly. *Staff*

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

A continuation of *Economics-Administration 225H*. Mathematical techniques used to set and solve problems. Topics include total differentiation, comparative static analysis under specific and general equilibrium function models, unconstrained optimization, constrained optimization with equality constraints (classical programming), concavity, convexity, quasi-concavity and quasi-convexity, homogeneous functions, integral calculus, exponential and logarithmic functions, linear programming. Prerequisite: *Economics-Administration 225H, 220H* (or equivalents). Pre- and co-requisites: *Economics 200, 201*, or permission of the instructor. Three lectures weekly. *M. Arvin*

Economics – Comparative Development 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: rethinking development: a market-friendly strategy for the poor; the growing literature on foreign aid, debt and development; and increasing interdependence in areas such as technology and financial flows. Two lectures weekly, seminar fortnightly. (Excludes *Economics 330*.) *S. Choudhry*

Economics 341H – Industrial organization (Sc)

Study of markets including perfect competition, monopoly, and imperfect competition. Special topics include product differentiation, collusion, measures of market concentration, mergers and vertical integration, predatory pricing, entry deterrence, advertising, vertical restraints, and antitrust policies. Prerequisite: *Economics 200*. Pre- and co-requisites: *Economics-Administration 225H* or equivalent. Two lectures weekly, seminar fortnightly. *M. Arvin*

Economics 350H – Economics of trade unions

What do unions really do? The application of economic analysis to explain the rise and impact of private and public sector unionism in Canada. Topics include: the effects of unions on wages, productivity and unemployment; collective bargaining; and the causes and consequences of strikes. Two lectures weekly, seminar fortnightly. *Staff*

Economics 351H – Labour economics (Sc)

The economic theory of labour markets used to understand their outcomes and evaluate policies. Topics include wage differentials, investment in human capital, and structural unemployment problems. Prerequisites: *Economics 200*. Three hours weekly. *Staff*

Economics 361H – An economic history of the industrial revolution

Economic and quantitative analyses of European industrialization with special emphasis on the British experience. Topics include the origins of factories, technical change, worker-firm relations, the standard of living debate, and the decline of British industry. Two lectures weekly, seminar fortnightly. (Excludes *Economics 360*.) *Staff*

Economics 362H – International economic history, 1850 to present

Seeks to understand alternative paths to industrialization in the context of international capital, labour and goods markets. Topics include the classic gold standard, core-periphery relations, the inter-war years and growth after 1945. Emphasis on the European experience. Two lectures weekly, seminar fortnightly. (Excl. *Economics 360*.) *Staff*

Economics – Environmental & Resource Studies 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. Prerequisites: *Economics 101H, 102H*, or permission of instructor. Three hours weekly. *B. Cater*

Economics – Environmental & Resource Studies – Canadian Studies 382H – Canadian renewable resource policy

Prerequisite: the equivalent of one full 200-level Environmental & Resource Studies or Canadian Studies credit and *Economics 101H, Economics 102H*, or permission of instructor. (See Environmental & Resource Studies).

Economics – Canadian Studies 384H – Health economics

Economic analysis of the organization, financing and utilization of health services. Patterns of consumer and provider behaviour; the functioning and regulation of markets for health services; policy issues in the provision of health care in Canada. Two-hour lecture weekly, seminar weekly. *J. Muldoon*

Economics 398H – Special topics in economic analysis and policy:**International monetary relations**

The evolution of international monetary relations through four historical periods: the classical gold standard, the inter-war period, the Bretton Woods system, and era of flexible exchange rates. Particular emphasis on the balance of payments adjustment mechanism and distribution of the adjustment burden, the globalization of capital markets and effects on developing countries. Two lectures weekly, seminar fortnightly. *Staff*

Economics 400H – Topics in advanced microeconomic theory (Sc)

Development of utility theory from axiomatic preference theory, the structure of utility and production functions; duality in consumer theory; decision-making under uncertainty; general equilibrium models; welfare economics; game theory. Prerequisites: *Economics 200, Economics-Administration 225H, 220H* (or equivalents). Three hours weekly. *T. Drewes*

Economics 401 – Research project (Sc)

This course is designed to help students develop independent research skills by working on a topic of individual interest, under the close supervision of a faculty adviser. Prerequisite: Open only to single or joint economics majors in the fourth quarter of the Honours program. *S. Choudhry and staff*

Economics 402H – Empirical methodology in economics (Sc)

This course in applied econometric methods will be taught in four modules: (i) survey methodology, (ii) data handling, visualization, and description, (iii) applied regression theory, (iv) linking theory and econometrics. The goal is to equip students with the skills needed to analyse and interpret statistical data. Students will be exposed to visualization techniques, regression diagnostics, etc., to illustrate the links between econometrics and economic theory. Prerequisites: *Economics – Administration 225H, 220H* (or equivalents). Pre- and co-requisites: *Economics 200, 201* or permission of the instructor. Three hours weekly. *Staff*

Economics 403H – Topics in economic policy (Sc)

This course will explore up to four distinct issues of significant economic policy importance, with the issues to be determined by faculty assignment to the course. In doing so, the course will ensure that graduates of the Economics program will have had at least one course driven more by issues than by methodology. While the issues are expected to be of interest in and of themselves, they will also serve to expose students to the best available practices in addressing issues of significant public interest, a review of contemporary literature, and current research methodologies. Prerequisites: *Economics – Administration 225H, 220H* (or equivalents). Pre- and co-requisites: *Economics 200, 201*. Three hours weekly. *Staff*

Economics 405H – Topics in advanced macroeconomics (Sc)

This course examines the development of macroeconomic models from Classical models through Disequilibrium Keynesian and Rational Expectations. Integrating microfoundations of macroeconomic theory, the course examines the policy implications of implicit contract theory; theories of optimal choice of policy instruments and theories of efficiency wages and unemployment. Prerequisites: *Economics 201, Economics-Administration 225H, Economics-Administration 220H* (or equivalents). Two hour lecture weekly, seminar fortnightly. *D. Curtis*

Economics 420H – Topics in econometrics (Sc)

This course examines theory and practice in the estimation and testing of economic models with an emphasis on alternatives to simple regression, as they relate to particular economic and statistical issues in an applied setting. Students gain experience in evaluating and refining empirical models of the economy. Prerequisites: *Economics 320H* or permission of instructor. Two hour lecture weekly, seminar fortnightly. *Staff*

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

Classical and nonlinear programming, comparative static analysis, differential equations, dynamic optimization, optimal control theory, phase diagrams, dynamic stability/instability in systems, economics of risk and uncertainty. Economic applications will be stressed throughout the course. Prerequisite: *Economics 325H* or permission of the instructor. Two lectures weekly, seminar fortnightly. *M. Arvin*

EDUCATION

Telephone: (705) 748-1464

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Fax: (705) 748-1008

Co-ordinator Queen's-Trent Teacher Education Program

Mark Danby, B.A. (ACADIA), B.Ed. (QUEEN'S), M.Ed. (QUEEN'S)

Associate Professor Queen's-Trent Teacher Education Program

Deborah P. Berrill, B.A. (NORTHWESTERN), M.A. (TORONTO), Ph.D. (EAST ANGLIA)

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 program, the first two are completed at Trent University and the last five are completed in the final year at Queen's.

Teacher preparation in the program is both academic and field-centred. Teacher candidates are in contact with schools in each year of the program, while at the same time pursuing academic and professional studies. The candidates' involvement in the professional program increases from year to year and includes 16 weeks of Practicum in the final year.

The program encourages candidates to do an Honours degree. 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 5th year.

Program Options

Candidates elect to specialize in one of two program options: Primary-Junior (Grades K to 6) or Intermediate-Senior (Grades 7 to OAC).

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 (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 credit in Anthropology, Psychology or Sociology
- one credit in language or linguistics (or OAC equivalent)
- one credit in Mathematics (or OAC Mathematics)
- one credit in visual or performing arts (or OAC equivalent)
- one credit in physical or natural science (or OAC Science)

2. Intermediate – Senior

This option prepares candidates to teach in the Intermediate division (Grades 7 to 10) and the Senior division (Grades 11 to OAC). Candidates admitted to this option must select two teaching subjects for the study and development of teaching methods. They must include in the undergraduate degree five credits in one teaching subject and four credits in the other, with the exception of French where five credits must be completed. Also included in the undergraduate degree must be 0.5 credit in Anthropology, Psychology or Sociology. Candidates may select teaching subjects from Biology, Chemistry, Computer Science, Dramatic Arts, English, French, Geography, History, Mathematics, Native Studies, Visual Arts, and Physics.

Selection criteria

Approximately 110 candidates are accepted in first year. Candidates are selected according to the following criteria:

- Academic standing (6 OACs or equivalent): 50 %
- Personal Statement of Experience (showing candidate's related experience and stressing responsibility, leadership, and initiative): 50 %

We are actively seeking

- candidates who have experience with special needs populations and in multicultural settings
- candidates (especially women candidates) who are interested in teaching science at both elementary and secondary school levels
- About 10 % of first year places are available to applicants who wish to transfer to Concurrent Education after their first year in Arts or Science. Please contact the Teacher Education Office for further details

Notes

- Candidates are strongly encouraged to consult with the Queen's-Trent Teacher Education Program office to ensure that courses selected meet program requirements. A list of acceptable courses is made available to 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 prerequisites to 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 an average of 70 % over all 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 Teacher Education office concerning suitable courses.
- Candidates are required to pay Queen's course fees for their Education courses. These are not covered by Trent University arts and science tuition fees.
- Candidates are required to pay a nominal course materials fee in Education courses.
- Candidates in a B.A. (Honours) program are advised to include 20 credits in their program. This may place them in a higher salary category on becoming a certified teacher.
- Program requirements are subject to change without notice.

REQUIRED COURSES

Year 1 at Trent (one credit)

- up to five credits towards a B.A. or B.Sc.
- *EDST436* (0.5 credit), Introduction to Schools and Teaching
- *PRAC166* (0.5 credit), Year one Concurrent Practicum, which includes the equivalent of 10 full days in classrooms

Year 2 at Trent (half-credit)

- up to five credits towards a B.A. or B.Sc.
- *PRAC167* (0.5 credit), Year two Concurrent Practicum/Professional Development, which includes the equivalent of 10 full days in classrooms

Year 3 at Trent (half-credit)

- up to five credits towards a B.A. or B.Sc.
- *PRAC168* (0.5 credit), Year 3 Concurrent Practicum/Program Focus, which includes the equivalent of four weeks of Practicum

Year 4 at Trent

- up to five credits towards a B.A. or B.Sc.
- no Education courses required

Final Year at Queen's (five credits)

- Fall session: *PRAC190*, a 10 week Practicum; two field-based half-credit courses, *PROF100* and either *PROF190* (elementary) or *PROF191* (secondary); Curriculum (CURR); Program Focus (FOCI)
- Winter session: CURR, Educational Studies (EDST), FOCI (includes three week placement), and *PRAC190* (3 weeks)

EMPHASIS PROGRAMS

Emphasis Programs exist in order to accommodate students enrolled in an Honours or General program who wish to focus on an area within their program.

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 emphasis programs are available:

Applied Ethics

Conservation Biology

Geographical Information Systems

Globalization, Communities and Identities

Health Sciences

International Political Economy

International Studies

Law and Policy

Native Management and Economic Development

Northern and Polar Studies

Québec Studies

Travel Studies

Emphasis in Applied Ethics

See Philosophy (p. 218)

Emphasis in Conservation Biology

See Biology (p. 106)

Emphasis in Geographical Information Systems

See Joint Programs with Sir Sandford Fleming College (p. 249)

Emphasis in Globalization: Communities and Identities

See International Studies (p. 194)

Emphasis in Health Sciences

See Biology (p. 106)

Emphasis in International Political Economy

See International Studies (p. 194)

Emphasis in International Studies

See International Studies (p. 194)

Emphasis in Law and Policy

Program Co-ordinator: J. Driscoll E-mail: jdriscoll@trentu.ca

The Emphasis in Law and 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 and 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 Program, will contain the notation "with an Emphasis in Law and Policy."

Notes

- Courses in the Law and Policy Program may have prerequisites. In planning their Emphasis, students should carefully take this into account.

Courses

The Emphasis in Law and 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

Economics 302H, 317H, 384H
Economics – Environmental & Resource Studies 381H
Environmental & Resource Studies 210H
Environmental & Resource Studies – Canadian Studies 467H
Environmental & Resource Studies – Canadian Studies – Political Studies 310, 461H
Native Studies 200, 300
Political Studies 100, 320H, 405, 432
Political Studies – Canadian Studies 201, 321H, 362
Political Studies – Canadian Studies – Environmental & Resource Studies 267H, 460H
Sociology 366

CATEGORY B

Administrative Studies 325H
Environmental & Resource Studies 325H, 425H
Native Studies 340
Philosophy 105, 232, 395
Political Studies 268H
Political Studies – Canadian Studies – Women's Studies 395
Sociology 365H

Emphasis in Native Management and Economic Development

See Native Management and Economic Development (p. 210)

Emphasis in Northern and Polar Studies

Telephone: (705) 748-1440

E-mail: geography@trentu.ca

Fax: (705) 748-1205

Web: www.trentu.ca/geography

Program Co-ordinator

P.M. Lafleur, B.Sc. (BRANDON), M.Sc. (McMASTER), Department of Geography

The Emphasis in Northern and 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 Program, will contain the notation "with an Emphasis in Northern and 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 and 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 prior to 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 prior to 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.
- 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 and Polar Studies consists of five credits, least two credits from the following courses:

Anthropology 311

Anthropology – Canadian Studies – Native Studies 253

Canadian Studies – Geography – Environmental & Resource Studies 200H

Canadian Studies – History 300

Environmental & Resource Studies – Canadian Studies 250

Environmental & Resource Studies – Comparative Development Studies 360

Geography 342H

**Geography – Canadian Studies 364H*

Geography – Canadian Studies – Environmental & Resource Studies 203H

History 370

History – Canadian Studies 407

History – Canadian Studies – Native Studies 425

*Native Studies 200, 340, *481*

**Native Studies – Canadian Studies 285*

Native Studies – Comparative Development Studies 305

Emphasis in Québec Studies

See Modern Languages and Literatures, French Studies section (p. 202)

Emphasis in Travel Studies

E-mail: jharrison@trentu.ca

Program Co-ordinators:

Julia Harrison, B.A. (SASKATCHEWAN), M.A. (CALGARY), D.Phil. (Oxford), Department of Anthropology

Alan Law, B.A.S. (Sydney), M.A., Ph.D. (ALBERTA), Department of 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 Program, 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 prior to 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 consist of at least five credits. Three credits must be chosen from the following courses: *Anthropology 495H*, *Geography 231H*, *337H*, *Sociology 480* (when taught by A. Heitlinger), *497H*, *English 4955*.

During their third or fourth year students must earn at least two credits in a major research project focused on tourism and travel. These credits may be earned through research project(s) which form the basis of a double credit honours thesis, 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 participating faculty listed above is normally an official reader of the work.

ENGLISH LITERATURE

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Web: www.trentu.ca/english

Professor and Chair of the Department

J.E. Neufeld, B.A. (TORONTO), M.A., Ph.D. (CHICAGO)

Professors Emeriti

R.D. Chambers, B.A. (McGILL), B.LITT. (OXFORD); S.F. Gallagher, B.A. (IRELAND), M.A. (WESTERN ONTARIO), Ph.D. (IRELAND); E.M. Orsten, M.A. (OXFORD), Ph.D. (TORONTO); G. Roper, M.A., Ph.D. (CHICAGO)

Professors

L.W. Conolly, B.A. (WALES), M.A. (McMASTER), Ph.D. (WALES); R.J. Dellamora, A.B. (DARTMOUTH COLLEGE), B.A. (CAMBRIDGE), M.PHIL., Ph.D. (YALE); J.A. Fekete, B.A., M.A. (McGILL), Ph.D. (CAMBRIDGE); G.A. Johnston, B.A. (TORONTO), M.A. (HARVARD); S.L. Keefer, B.A., M.A., Ph.D. (TORONTO) (*on leave 2000 – 2001*); O.S. Mitchell, B.A., M.A. (ALBERTA), Ph.D. (LONDON); M.A. Peterman, A.B. (PRINCETON), M.A., Ph.D. (TORONTO) (*on leave 2000 – 2001*); Z.H. Pollock, B.A. (MANITOBA), Ph.D. (LONDON); F.B. Tromly, B.A. (GRINNELL), M.A., Ph.D. (CHICAGO)

Associate Professors

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. (MONTREAL); K.A. Chittick, B.A., M.A. (TORONTO), Ph.D. (EDINBURGH); L.J. Clark, B.A., M.A. (TORONTO), Ph.D. (VIRGINIA); G.D. Eathorne, B.A. (NEW ZEALAND), M.A. (CANTERBURY); M.C. Eddy, B.A., M.A. (WESTERN ONTARIO), Ph.D. (TORONTO); D.K. Glassco, B.A. (QUEEN'S), M.A. (MELBOURNE), Ph.D. (LONDON); E.A. Popham, B.A., M.A. (MANITOBA), Ph.D. (QUEEN'S)

In the English department at Trent University we introduce our students to the vast sweep of literature in English from its beginnings over a thousand years ago in Anglo-Saxon England to its current status as the global medium of culture and communication. We study the language of our daily existence functioning at its full force, in works of the imagination which confront the pressing and enduring issues in our lives and our society. Our goal is to enhance students' love and understanding of literature in English and to enable them to develop the reading, writing, and analytical skills that are crucial to academic and professional success in the Information Age. We believe that the best way of achieving this goal is by exchanging and testing ideas in small-group discussions (of no more than 12 students) led by experienced and dedicated teachers.

Revisions to the curriculum

The English department is currently in the process of revising its curriculum. In 2000 – 01, as the first stage of this process, the department is introducing a limited number of half-courses, each of which will fulfil a category requirement. By 2001–02 there will be at least one such course for each category. Students who have declared a major by 2001 – 02, when the process of revision will be completed, may choose to graduate under either the old or the revised provisions.

Notes

- A grade of C- (60%) or higher in *English 100* is a prerequisite for *English 205*.
- Students who wish to take an upper level English course in first year must obtain the permission of the chair of the department.
- 200-level courses in English are considered equivalent to 300-level courses in order to satisfy the University requirement for at least seven credits beyond the 200-level in the Honours program and at least four in the General program.
- 400-level English courses are normally limited to students in the fourth year of the Honours English program. However, other students may enroll in 400-level English courses if they have obtained the permission of the instructor and of the Honours advisor (see below).
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Registrar's Office for a minor in English, 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 English department – courses, faculty, schedules, procedures, policies, special events, etc. – check the English department website at www.trentu.ca/english.

Bachelor of Arts program in English

- *English 205* is required in the second year of the program. It is not open to students in the fourth year of the Honours English program.
- The last four credits in the Honours program must include at least three 400-level credits in English in the single-major program, and at least two in the joint-major program.
- With the exception of *English 205*, each English course is assigned to a category. Each of categories A to E encompasses a single literary period. Category F consists of courses which are not confined to a particular period, but which focus on genres, literary theory and criticism, and the history of ideas. For special topics courses, the category requirements which they fulfil in a given year are noted in the individual course descriptions. For specific category requirements for the B.A. in English, see below.

A 800 to 1500	B 1500 to 1642	C 1642 to 1790	D 1790 to 1900	E 1900 to Present	F Genres, etc.
230	220	201	210	229	100
331	253H	300	231	265	215
331H	254H	301	232	320	266
332	420	301H	320	340	310
431	433	4301	321	345	315
4331		434	435	350	325
432			436	365	329
				371	355
				440	360
				450	370
				460	375
				465	381
				466	425
				475	

- "Honours-stream" seminars in 200- and 300-level courses are provided for students in the Honours English program who require a 400-level course in a particular category, but lack a prerequisite for it. These seminars are equivalent to 400-level courses in workload and assessment, and are recorded as 400-level courses on students' transcripts.
- Up to one credit in the following courses may be substituted for a credit in English: *Canadian Studies 266*; *Classical Literature 100, 200, 300*; *Cultural Studies 205, 222, 225, 270, 322, 370*. However, none of the above courses fulfils a category requirement.
- It is recommended that students considering graduate studies in English complete an upper level course in a second language.
- Information meetings for students intending to enter the fourth year of the Honours program are held during the Winter session, when the details of the next year's 400-level course offerings and of application procedures are outlined. All inquiries should be directed to the Honours advisor: Professor Sarah Keefer, Trill College, (705) 748-1815 (e-mail: skeefers@trentu.ca).

The single-major Honours program consists of 19 credits. At least 10 credits in English, including:

- *English 100* and *205*
- three credits at the 400-level
- five additional credits
- at least half of the credits in English from each category

The joint-major Honours program consists of 19 or 19.5 credits (depending on the joint-discipline). At least eight credits in English, including:

- *English 100* and *205*
- two credits at the 400-level
- five additional credits
- at least half of the credits in English from each of five categories

The single-major General program consists of 15 credits. At least six credits in English, including:

- *English 100* and *205*
- four additional credits
- at least half of the credits in English from each of two categories from A to C, and from each of two categories from D to F

The joint-major General program consists of 15 credits. At least five credits in English, including:

- *English 100* and *205*
- three additional credits
- at least half of the credits in English from each of three categories, at least one category from A to C, and at least one from D to F

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

English 100 – Introduction to English literature

This course focuses on selected periods, issues, forms, and movements from the broad spectrum of literature in English. For 2000 – 2001, the units will be: Finding America's Voices, Globalization and Its Discontents; New and Old Worlds in the Renaissance, and Colonialism and Cultural Encounters. One-hour lecture and seminar weekly; several two-hour workshops. *F.B. Tromly and staff*

English 201 – Milton and his age

An examination of Milton's development as man and artist through the study of his major works (including "Comus," "Lycidas," *Areopagitica*, *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*) and selected works of contemporary authors. Weekly lecture and seminar. *K. A. Chittick*

English 205 – Form and context in literature

An introduction to form in literature and to the cultural and critical contexts which influence writers' uses of form and readers' responses to it. The course explores a wide range of works, representing a variety of periods and perspectives. It also makes reference to the relationship between literary and non-literary language and to the parallels between literature and the other arts. Emphasis will be placed upon learning through writing. Weekly three-hour workshop. *Z. Pollock and J.E. Neufeld*

English 210 – The Romantics

A study of romanticism's representations of revolution in Burke, Rousseau, Wollstonecraft, Blake, Wordsworth, Coleridge, Byron, the Shelleys, Keats, and Jane Austen, with some attention to Hazlitt, De Quincey, and to the aesthetic and political implications of such modes of representation as the sublime, the grotesque, and Romantic orientalism. Weekly lecture and seminar. *L.J. Clark*

English 215 – English drama before the 20th century

The course traces the development of English drama from its medieval beginnings to the end of the 19th century. The plays will be examined from a literary and theatrical perspective. Writers to be studied include Marlowe, Shakespeare, Jonson, Wycherley, Behn, Sheridan, Wilde, and Shaw. Weekly lecture and seminar.

English 220 – Studies in Shakespeare

An examination of Shakespeare's dramatic career through the study of about a dozen representative works spanning the period from the early comedies to the last plays. Weekly lecture and seminar. Occasional workshops. *D.K. Glassco, L.W. Conolly, Z. Pollock*

English – Cultural Studies 229 – Science fiction (See Cultural Studies.)

English 230 – The history of the English language

A study of the development and use of the English language, both spoken and written, from the Old and Middle English periods to modern colloquial usage standards and experimental fiction. The course emphasizes practical philological linguistics, structural analysis and the application of language skills to a wide range of prose and verse from 950 C.E. to current writing. Weekly lecture or language workshop and seminar.

English 231 – The American renaissance

Studies in the literature of the pre-Civil War United States. Attention will focus on the work of Poe, Emerson, Thoreau, Hawthorne, Melville, Whitman, and Dickinson. Weekly lecture and seminar. K. A. Chittick

English 232 – American literature: The gilded age

A study of American literature from the Civil War to World War I, and the relation between historical change and culture in the period. Writers to be studied include Twain, James, Howells, Crane, Du Bois, Chopin, Cather, Dreiser, Wharton, and Adams. Weekly lecture and seminar.

English 253H – The age of Elizabeth

This course focuses on the flowering of literature in the Renaissance in England from the defeat of the Spanish Armada to the death of Queen Elizabeth. Authors to be studied include Sidney, Spenser, Marlowe, Nashe, Shakespeare, and Jonson. (Offered this year and in alternate years.) *Z.H. Pollock*

English 254H – Cavaliers and metaphysicals

This course focuses on literature in English from the accession of James I to the Civil War. The primary emphasis will be on the poetry of Jonson and his "school," the cavalier poets Herrick, Lovelace, Suckling; and the poetry of Donne and his "school," the metaphysical poets Herbert, Vaughan, Crashaw, Traherne, and Marvell. Some attention will be paid as well to the drama and prose of the age. (Offered in alternate years but not this year.)

English – Canadian Studies 265 – English Canadian prose

A study of principal Canadian writers of English prose from the 19th century to the present day, including some of Atwood, Callaghan, Davies, Duncan, Findley, Glassco, Haliburton, King, Kogawa, Kroetsch, Laurence, Leacock, MacLeod, MacLennan, Mistry, Mitchell, Moodie, Ondaatje, Richler, Ross, Watson, Wilson, and Wiseman. Weekly lecture and seminar. *O.S. Mitchell*

English – Canadian Studies – Women's Studies 266 – Canadian women's writing
(See Canadian Studies.)**English 300 – Literature of Augustan England**

Studies in the literature of the Augustan period, 1660-1740. Writers to be studied include Addison and Steele, Behn, Congreve, Defoe, Etherege, Fielding, Gay, Lady Mary Wortley Montagu, and Wycherley, with particular emphasis on Dryden, Pope, and Swift. Weekly lecture and seminar.

English 301 – The age of Johnson

Studies in English literature of the mid and late 18th century, 1740-1795. In addition to Johnson himself, writers to be studied include Boswell, Burney, Gibbon, Goldsmith, Gray, Richardson, R.B. Sheridan, and Sterne, as well as selected poets from Lonsdale's anthology *Eighteenth-Century Women Poets*. Weekly lecture and seminar. *L. J. Clark*

English 302H – The age of sensibility

A half-course version of *English 301*. Authors to be studied may include Samuel Johnson, Boswell, Sterne, Goldsmith, Sheridan and Burney.

English – Women's Studies 310 – Gender and literature

A study of relations between gender and genre in works of women. Works have been selected from different genres, periods and places in the English-speaking world. However, the emphasis will be on modern and contemporary works. Weekly lecture and seminar.

English 315 – Commonwealth fiction

A study of prose fiction of the Commonwealth with special emphasis on the West Indies, Africa, and Asia. Writers to be studied include V.S. Naipaul, Jean Rhys, Chinua Achebe, Ngugi wa Thiongo, J. Coetzee, Nadine Gordimer, N.K. Narayan, Salman Rushdie, and Anita Desai. Weekly lecture and two-hour fortnightly seminar. *G.D. Eathorne*

English 320 – The age of Dickens

A study of Victorian literature and society. Writers to be studied include Carlyle, Dickens, Thackeray, George Eliot, Gaskell, Ruskin, and Arnold. Weekly lecture and seminar.

R.J. Dellamora

English – Cultural Studies 321 – Literature and society

Studies in the relation between literature and society in a number of 19th century works that deal with social, cultural and women's issues. Writers to be studied include Charles Dickens, Benjamin Disraeli, George Eliot, Anthony Trollope, Henry James, and Oscar Wilde. Weekly lecture and seminar. *R.J. Dellamorra*

English 325 – Critical approaches to literature

This course will examine some of the major critical approaches to literature and interpretation in the 20th century: Formalism, Structuralism and Semiotics, Reader-Response Criticism, New Historicism, Psychoanalytic Criticism, Deconstruction, and Feminism. Weekly lecture and seminar; several workshops.

English – Cultural Studies 329 – Utopia (future fiction) (See Cultural Studies)**English 331H – Chaucer's Canterbury Tales: The development of character studies**

This course will focus on the earliest examples of character development in English. By reading the General Prologue to the Canterbury Tales, some of the headlinks and some of the tales, we will look at the presentation and relationships of some of the Pilgrim narrators, as they function within the frame narrative and with respect to the stories they tell. Weekly lecture and seminar; three two-hour evening workshops/films during the course.

English 332 – Medieval romance

The Arthurian romance tradition, from its Briton/Breton origins, focusing through the figure of Gawain on the martial and erotic faces of the genre in the form of male friendship, chivalric loyalty and courtly love. Middle English works include *Sir Orfeo*, *Ywain and Gawain*, *Sir Gawain and the Green Knight*, and later verse and prose selections. Weekly lecture or film and seminar.

English 340 – Modern poetry

An introduction to the works of some of the important poets writing in English in the 20th century. Writers to be studied include Yeats, Eliot, Pound, Williams, Stevens, Frost, Thomas, Auden, and Lowell. Weekly lecture and seminar.

English 345 – Modern British fiction

A study of the major developments in British fiction in the 20th century, focusing on thematic, technical, and stylistic innovation as a response to unprecedented social change. Writers include Conrad, Ford, Joyce, Lawrence, Woolf, Forster, Waugh, Huxley, Greene, Rhys, Naipaul, and Gordimer. Weekly two-hour seminar. *G.D. Eathorne*

English 350 – Modern drama

Studies in the works of twentieth-century English, Irish, American, and Canadian playwrights. Writers to be studied include Shaw, Wilde, Osborne, Pinter, Stoppard, Beckett, Churchill, Gels, Williams, Miller, Albee, Pollock, Tremblay, Thompson, and French. Weekly lecture and seminar. *L. Conolly*

English – Cultural Studies 355 – Sexuality and textuality (See Cultural Studies)**English – Canadian Studies – Native Studies 360 – Native peoples in literature**

A study of the nature, methods and contexts of narrative in a representative series of North American fictions by non-native and (primarily) native authors. Writers to be studied include Momaday, Silko, Erdrich, King, and Alexie. Weekly lecture and seminar. *G. Johnston*

English – Canadian Studies 365 – English-Canadian poetry

An introduction to Canadian poetry written in English, from Confederation to the present. Representative writers from each period will be studied; they include Lampman, Pratt, Klein, Purdy, Cohen, Atwood, and Ondaatje. Weekly lecture and seminar. *G. Johnston*

English 370 – Studies in the novel

A study of the development of the English novel, stressing both its thematic and technical aspects. Writers to be studied will include some of Defoe, Richardson, Fielding, Sterne, Austen, Scott, Emily Brontë, Dickens, Eliot, Hardy, James, Conrad, Lawrence, and Woolf. Weekly lecture and seminar.

English 371 – Modern American fiction

A study of American fiction from 1920 to the present. Writers to be studied include Hemingway, Fitzgerald, Faulkner, West, Bellow, Doctorow, Hurston, Morrison, McCarthy, Silko, Irving, and Stegner. Weekly lecture and seminar. *M.C. Eddy*

English 375 – An introduction to creative writing

A workshop course offering students a formal structure within which to pursue their interest in creative writing. Students will submit rough written work ("freefall") weekly and over the year will work towards a finished piece of fiction. Students seeking admission will submit a portfolio of written work to the instructor by August 1, and will be notified if they have been accepted into the course by August 30. Weekly three-hour workshop. *O.S. Mitchell*

English 381 – Literature and psychology

A study of the contributions of certain psychological theories and concepts to an understanding of literary works. Among the major theories to be considered are those of Freud, Jung, and the modern humanistic psychologists. Weekly lecture and seminar.

English 385 – Children's literature

This course examines children's literature within the wider context of the culture of the child through emphasizing the way in which contemporary children's literature bridges the transition from oral to literate culture and by exploring the two primary historical sources of the genre in the 18th-century rise of the popular press and the 19th-century cult of the child. Authors studied include Frank Baum, Lewis Carroll, Beatrix Potter, J. M. Barrie, L. M. Montgomery, E. B. White, A. A. Milne, Dr Seuss, Maurice Sendak, Robert Munsch, Judy Blume, Tim Wynne-Jones and Julie Johnston. *S. W. Brown*

English 402 – Honours thesis

A double-credit course, for which double fee is charged, in which instruction in research methods leads to a thesis of about 15,000 words. The department deadline for a thesis abstract and bibliography (signed by the thesis supervisor) is May 1 of the student's third year. See Honours brochure or website (www.trentu.ca/english) for details.

English 420 – Advanced studies in Shakespeare

Topic for 2000-2001: Authority and rebellion in Shakespeare. This course will explore the central but ambiguous place of authority – always necessary and always dangerous – in Shakespeare's plays. Works from all of Shakespeare's dramatic genres and from all of the periods of his career will be studied. Multiple approaches to Shakespeare's representation of moral and political authority will be supported by various historical contexts, including the sanctions of the Great Chain of Being, patriarchal rule in the family, Elizabethan strategies for maintaining law and order, and the challenges posed by the sceptical philosophy of Montaigne and by new theories of republicanism and tyrannicide. Finally, we will consider how Shakespeare's plays exert cultural and moral authority today, and whether or not that authority is true to their vision of life. *F. Tromly*

English 4201 – Advanced studies in Milton

See English 201. *K. A. Chittick*

English – Cultural Studies 425 – Literary theory and critical theory (See Cultural Studies)**English 4301 – Johnson and his contemporaries**

Studies in the English literature of the mid and late 18th century, 1740 – 1795, with particular attention to the work of Samuel Johnson. Other writers to be studied include Boswell, Burney, Gibbon, Goldsmith, Gray, Richardson, R. B. Sheridan, and Sterne, as well as selected poets from Lonsdale's anthology *Eighteenth-Century Women Poets*. Besides the traditional genres of poetry, drama, and the novel, the course will consider some of the great writing in the fields of biography, literary criticism, the diary, the essay, history, politics, and travel which helped mark the period as the great age of English prose. Prerequisite: none (excludes English 301). Weekly lecture (with English 301) and 90-minute seminar. *L. J. Clark*

English 431 – Studies in Old English language and literature**English 432 – Advanced studies in Medieval English**

English 433 – Advanced studies in Renaissance literature

Topic for 2000 – 2001: Sex and politics in Elizabethan literature. An exploration of ‘courtship’ in the reign of Elizabeth I, focusing on the appropriation for political statement of forms and attitudes traditionally associated with sexual courtship in Sidney’s *Old and New Arcadias*, Spenser’s *Faerie Queene*, and selected plays by Shakespeare. Examples of courtesy literature, contemporary poetic and political theory, lyric and pastoral poetry, the erotic epyllion, prose romance, and political pageantry will provide the context. Prerequisite: any B category English course, or permission of the instructor. Two-hour seminar weekly. *E. A. Popham*

English 434 – Advanced studies in Restoration and 18th century literature

English 435 – Advanced studies in the Romantics

Topic for 2000–2001: Jane Austen and the Literature of Sensibility. The course explores Austen’s fiction in the context of the society and literature of her time, and in particular its place within and against contemporary romantic, sentimental, and Gothic traditions, reading her novels in the light of works by Rousseau, Mackenzie, Goethe, Burney, Wollstonecraft, Edgeworth, and Scott. Prerequisite: none. Two-hour seminar weekly. *L.J. Clark*

English 436 – Advanced studies in Victorian literature

Topic for 2000 – 2001: Pickpockets and swells. A study of society’s organization by class structure in 19th century London and its significance for the form of the novel, beginning with poetic descriptions of London at the end of the 18th century. Readings will be supplemented with journalism of the period. Two-hour seminar. Prerequisite: none. *K. A. Chittick*

English 450 – Advanced studies in modern drama

Topic for 2000 – 2001: The plays of Bernard Shaw. A textual and thematic analysis of major plays of Bernard Shaw, with particular emphasis on Shaw’s social and political thought. Plays to be studied include Mrs Warren’s Profession, Candida, You Never Can Tell, The Philanderer, Widowers’ Houses, Major Barbara, Saint Joan, The Apple Cart, On The Rocks, and Geneva. Prerequisite: none. Two-hour seminar weekly. *L. Conolly*

English 460 – Advanced studies in modern fiction

Topic for 2000–2001: Bloomsbury. The course will focus on the works of many of the members of the Bloomsbury Group. It will explore the fiction of Virginia Woolf and E. M. Forster and the biographies of Lytton Strachey with their extensive use of fictional techniques. Prerequisite: none. Three-hour seminar fortnightly. *G.D. Eathorne*

English – Canadian Studies 4651 – Advanced studies in Canadian literature

An introduction to Canadian poetry in English, including a study of biographical, critical and literary contexts, the nature of influence, and the nature of poetic tradition. *G. Johnston*

English 490 – Reading course

The course allows the student to select, with the approval of the department, an area for research study which is then pursued under the direction of a member of the department. Students are advised that Calendar deadlines for registration in courses apply to *English 490*. See Honours brochure or website (www.trentu.ca/english) for details.

English – Cultural Studies 4953 – Special topic: The subject of the text

(See Cultural Studies)

English 4955 – Special topic

Topic for 2000–2001 (category F): Travel Writing. While critics were proclaiming the death of the novel, story telling survived in modern travel writing. It has developed into an innovative, if ambiguous genre, where boundaries between fiction, fantasy, autobiography, adventure, history and meditation blur. We will explore some possibilities and concerns expressed in this genre. Prerequisite: none. Two-hour seminar weekly. *Staff*

English – Women's Studies 4956 – Special topic

Topic for 2000–2001 (category F): Writing the Body. This course examines the relationship between representations of embodiment and the project of writing in literary and theoretical texts. We will examine representations of corporeal violation, the racial and gendered performativity of the body, the function of the corpse, and the mobility of the bodily symptom (along with other manifestations of embodiment). Theoretical texts will range from the psychoanalytical articulation of the body in Freud and Luce Irigaray to the theories of Judith Butler and Elizabeth Grosz. Literary texts will include Alice Walker's *The Color Purple*, Yvonne Vera's *Without A Name*, Toni Morrison's *Beloved*, and William Faulkner's *As I Lay Dying*. Prerequisite: none. Two-hour seminar weekly. M.C. Eddy

English 4957 – Special topic

Topic for 2000–2001: Conrad and Lawrence. The course will focus on the novels of two of the most important writers in the early part of this century. Lawrence and Conrad were seminal contributors to the crucial shift from the self-confidence and apparent successes and strengths of the Victorian world view to the sensibility we have learned to call modern: one characterized by serious doubts, and a whole new sense of what it meant to be human. D. K. Glassco

ENVIRONMENTAL & RESOURCE SCIENCE/STUDIES

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Associate Professor and Chair of the Program

M.G. Fox, B.Sc. (PENNSYLVANIA), M.E.DES. (CALGARY), Ph.D. (QUEEN'S)

Professor Emeritus

M.L. Rubinoff, B.A. (QUEEN'S), M.A., Ph.D. (TORONTO)

Professors and NSERC Industrial Chairs

P. Dillon, B.Sc., M.Sc. Ph.D. (TORONTO); D. Mackay, B.Sc., Ph.D. (GLASGOW)

Assistant Professor and NSERC Industrial Junior Chair

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

Professors

R.D. Evans, B.Sc. (TORONTO), Ph.D. (McGILL); W.F.J. Evans, M.A., Ph.D. (SASKATCHEWAN), F.R.S.C.;

T.C. Hutchinson, B.Sc. (MANCHESTER), Ph.D. (SHEFFIELD), F.R.S.C.;

C.D. Metcalfe, B.Sc. (MANITOBA), M.Sc. (NEW BRUNSWICK), Ph.D. (McMASTER);

R.C. Paehlke, B.A. (LEHIGH), M.A. (NEW SCHOOL FOR SOCIAL RESEARCH), Ph.D. (BRITISH COLUMBIA) (on leave Winter session); D. Torgerson, B.A. (CALIFORNIA-BERKELEY), M.E.S. (YORK), M.A., Ph.D. (TORONTO)

Associate Professors

S. Bocking, B.Sc., M.A., Ph.D. (TORONTO); M. Havas, B.Sc., Ph.D. (TORONTO); T.H. Whillans, B.A. (GUELPH), M.Sc., Ph.D. (TORONTO)

Assistant Professors

J. Clapp, B.A. (MICHIGAN), M.Sc., Ph.D. (LONDON), D.G. Holdsworth, B.Sc. (WATERLOO), M.Sc. (McMASTER), Ph.D. (WESTERN ONTARIO); R. Ponce-Hernandez, B.ENG., M.Sc. (CHAPINGO), D.PHIL. (OXFORD)

Demonstrator/Technicians

R.K. Loney, B.Sc. (TORONTO); T.L. Metcalfe, B.Sc. (TRENT); R.C. Williams, M.Sc. (TRENT)

Associated Faculty

Biology, E. Nol, D. Lasenby, J. Schaefer; *Canadian Studies*, J.H. Wadland; *Chemistry*, J.M. Parnis, I. Svishchev; *Computer Studies*, S. Regoczei; *Economics*, B. Cater; *Geography*, J.M. Buttle, P.M. Lafleur, J.S. Marsh, S. Wurtele; *Sociology*, F. Nutch; *Women's Studies*, M. Hobbs

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 emphasis programs in Conservation Biology, Geographical Information Systems, Health Sciences, and Northern and Polar Studies.

Notes

- Students who have taken Grade 12 Environmental Science in Ontario or the equivalent elsewhere may opt to write a test during introductory week, on which a grade of at least C- (60%) will exempt them from taking *Environmental & Resource Science 100*. This will not, however, alter the minimum number of credits in Environmental & Resource Science/Studies required for the degree.
- Enrolment limits will apply to some courses. Please refer to the Academic Timetable for information about Early Registration procedures.
- Science courses, which fulfill University requirements for the B.Sc., are designated *Environmental & Resource Science*; arts courses are designated *Environmental & Resource Studies*.
- Any course involving work with vertebrate animals requires the Animal Care Course which is described on p. 87 of the calendar. The Animal Care Course requirement is indicated in some course descriptions but may also apply to others. Check with the departmental 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 Registrar's Office 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

- Students have the option of specializing in one or more themes, each of which represents an informal stream of courses. A list of the courses associated with each theme is available from the program office and on the program website.

Bachelor of Arts

Environmental Thought
Environmental Policy and Planning
Globalization and Community Development

Bachelor of Science

Natural Resource Management
Ecological Systems
Ecotoxicology

- *Environmental & Resource Science/Studies 401* and *402D*, the single and double credit thesis courses, are open to students with a minimum average of 75% in Environmental & Resource Science/Studies courses. Application for thesis courses is made during Early Registration. Applicants must make arrangements with a suitable program supervisor.

Bachelor of Arts Program in Environmental & Resource Studies

The Honours program consists of 20 credits for the single-major degree (19.5 or 20 credits for the joint-major degree, depending on the joint-discipline). At least 10 credits in Environmental & Resource Science/Studies for the single-major degree or seven for the joint-major degree. The program must include:

- *Environmental & Resource Science 100* and *Environmental & Resource Studies – Canadian Studies 250*
- for the single-major degree, eight additional credits in Environmental & Resource Science/Studies including at least five beyond the 200-level
- for the joint-major degree, five additional credits in Environmental & Resource Science/Studies including at least three beyond the 200-level
- one science credit at an upper level, or two credits from the following: *Biology 101* (or *102H* and *103H*), *Chemistry 100*, *Computer Studies 101H*, *Computer Science 102H*, *104H*, *Economics 101H*, *102H*, *Geography 101*, *Physics 100*, or any Mathematics courses at the 100-level

The General program consists of 15 credits. At least six credits in Environmental & Resource Science/Studies for the single-major degree or five for the joint-major degree. The program must include:

- *Environmental & Resource Science 100* and *Environmental & Resource Studies – Canadian Studies 250*
- for the single-major degree, four additional credits in Environmental & Resource Science/Studies including at least three beyond the 200-level
- for the joint-major degree, three additional credits in Environmental & Resource Science/Studies including at least two beyond the 200-level
- one science credit at an upper level, or two credits from the following: *Biology 101* (or *102H* and *103H*), *Chemistry 100*, *Computer Studies 101H*, *Computer Science 102H*, *104H*, *Economics 101H*, *102H*, *Geography 101*, *Physics 100*, or any Mathematics courses at the 100-level

Bachelor of Science Program in Environmental & Resource Science

- *Environmental & Resource Science – Biology 240* may be substituted for *Environmental & Resource Science 221H* at the University Centre at Durham College.

The Honours program consists of 20 credits for the single-major degree (19.5 or 20 for the joint-major degree, depending on the joint-discipline). At least 10 credits in Environmental & Resource Science/Studies for the single-major degree or seven for the joint-major degree. The program must include:

- *Environmental & Resource Science 100* and *221H*
- one credit from *Environmental & Resource Science – Biology 202*, *Environmental & Resource Science – Geography – Biology 208H*, *Environmental & Resource Science – Geography 209H*, *Environmental & Resource Studies 210H*, or *Environmental & Resource Science 230H*. (For students taking *Environmental & Resource Science – Biology 240* instead of *Environmental & Resource Science 221H*, only 0.5 credit is required from this list.)
- one credit in Environmental & Resource Studies
- for the single-major degree, 6.5 additional credits in Environmental & Resource Science/Studies, including at least five beyond the 200-level
- for the joint-major degree, 3.5 additional credits in Environmental & Resource Science/Studies, including at least three beyond the 200-level
- *Chemistry 100*
- one credit in Mathematics
- 14 science credits in the program as a whole

The General program consists of 15 credits. At least six credits in Environmental & Resource Science/Studies for the single-major degree or five for the joint-major degree. The program must include:

- *Environmental & Resource Science 100* and *221H*
- one credit from *Environmental & Resource Science – Biology 202*, *Environmental & Resource Science – Geography 209H*, *Environmental & Resource Studies 210H*, or *Environmental & Resource Science 230H*. (For students taking *Environmental & Resource Science – Biology 240* instead of *Environmental & Resource Science 221H*, only 0.5 credit is required from this list.)
- one credit in Environmental & Resource Studies
- for the single-major degree, 2.5 additional credits in Environmental & Resource Science/Studies beyond the 200-level
- for the joint-major degree, 1.5 additional credits in Environmental & Resource Science/Studies beyond the 200-level
- *Chemistry 100*
- one credit in Mathematics
- 11 science credits in the program as a whole

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

Environmental & Resource Science 100 – Introduction to environmental science and policy

This course provides an interdisciplinary survey of environmental and resource studies, examining its physical, chemical, biological, political and economic dimensions. Emphasis will be on concepts and methods that can be applied to the analysis and understanding of a range of specific environmental problems. *Co-ordinator: S. Bocking*

Environmental & Resource Studies – Canadian Studies – Geography 200H – Reconsidering Canada: Culturing the land (See Canadian Studies)

Environmental & Resource Science – Biology 202 – Ecology (See Biology)

Environmental & Resource Studies – Canadian Studies – Geography 203H – Reconsidering Canada: The nature of urbanism (See Geography)

Environmental & Resource Science – Geography – Biology 208H – Natural science statistics

The course covers commonly used statistical tools in Environmental & Resource Science, Biology, and Geography. Lectures will address basic statistical methods and background theory. Workshops will provide practical experience in the context of each discipline. Prerequisite: *Geography 101* or *Environmental & Resource Science 100* or *Biology 101*, or *102H* and *103H*. *Mathematics – Statistics 150* and 100-level computing experience are highly recommended. *P. Lafleur*

Environmental & Resource Science – Geography 209H – Introduction to geographical information systems (See Geography)

Environmental & Resource Studies 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: *Environmental & Resource Science 100*. *S. Bocking*

Environmental & Resource Science 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: one full 100-level Chemistry credit. *D. Evans and C. Metcalfe*

Environmental & Resource Science 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: *Physics 100* or one full 100-level Chemistry credit. *W. Evans*

Environmental & Resource Science – Biology 240 – Environmental microbiology

The first section lays the foundations of microbiology with an overview of essential biological chemistry, ecosystem science, cell biology, microscopy and cultivation techniques. Application is to bioremediation and site reclamation. Prerequisite: *Environmental & Resource Science 100* or OAC Biology. (Offered only in Oshawa. Interested students should consult the Part-Time Studies brochure.)

Environmental & Resource Science – Chemistry 241H – Environmental chemistry (See Chemistry)

Environmental & Resource Studies – Canadian Studies 250 – Canadian natural resource theory and management

This course considers theories of renewable and non-renewable resource management, and examines these practices with respect to specific Canadian resources. Prerequisite: *Environmental & Resource Science 100*. *M. Fox and D. Holdsworth*

Environmental & Resource Studies – Geography 251H – Methods in human geography and environmental studies

This course will focus on methods used in both professional and academic contexts. Methods examined in the course include surveys, content analysis, depth interviews, ethnography, focus groups and action research. Emphasis will be on application of the methods to environmental problem-solving and environmental research contexts, particularly at the local/regional level. Prerequisite: *Environmental & Resource Science 100* or *Geography 101*.

Environmental & Resource Studies – Canadian Studies – Politics 267H – Public policy
(See Political Studies)***Environmental & Resource Science – Biology 303H – Research design and data analysis*** (See Biology)***Environmental & Resource Studies/Science 307H – Environmental risk assessment: issues and techniques***

This course explores the practice of industrial and ecological risk assessment in environmental regulation. It addresses both the social issues and the analytical techniques of risk evaluation within the policy process and examines the growing importance of risk assessment in Western industrial countries as a framework for standards-setting and decision-making. The course is normally taken as an arts credit but may be taken as a science credit by undertaking an appropriate analytic project which illustrates the mastery of some technique. Prerequisite: one 200-level Environmental & Resource Studies/Science full or half-course credit and 10 university credits. *D. Holdsworth*

Environmental & Resource Studies 308 – Waste management

This course examines current and leading edge methods and systems for waste management and for diversion of used resources from disposal. Related social, economic, health, political and ecological matters are considered within a policy and planning framework. Prerequisite: *Environmental & Resource Studies – Canadian Studies 250*.

Environmental & Resource Studies 309H – The environmental professional

This course will cover aspects of professional practice with particular emphasis on the environmental practitioner. We shall consider specific professional roles, including those of the consultant, the expert witness, the researcher, and the advocate. Recent Canadian initiatives to establish professional certification and accreditation will be discussed. Prerequisites: *Environmental & Resource Studies 100* and 10 university credits. *D. Holdsworth*

Environmental & Resource Studies – Canadian Studies – Politics 310 – Public policy and the Canadian environment

A comparative study of Canadian environmental policy and the history of the Canadian environmental movement with an emphasis on policies relating to environmental health, energy and materials use, biodiversity, waste management and land use. Prerequisites: one 200-level Environmental & Resource Studies, Canadian Studies, Political Studies or Administrative Studies credit. *R. Paehlke and D. Torgerson*

Environmental & Resource Studies 311H – Environmental and impact assessment: a case study approach

Environmental impact assessment brings together scientific, economic, social and political perspectives in an attempt to anticipate and manage the consequences of human actions for the environment. This course will examine different approaches to environmental impact assessment, contrasting provincial with federal, and social with biophysical. Case studies will be used to illustrate particular theoretical and practical approaches. Prerequisites: One 200-level Environmental & Resource Science/Studies credit and 10 university credits.

Environmental & Resource Science 313H – Introduction to nuclear science

Radioactivity, ionizing radiations, dosimetry concepts and calculations, health effects of ionizing radiations, sources and levels of environmental radiation. Particular attention will be focused on the nuclear power industry and production of nuclear weapons, and health and environmental risks associated with these activities. Prerequisites: 10 university credits including at least one laboratory-based science credit.

Environmental & Resource Science 314H – Tracer techniques in the environment

This course will present practical approaches to tracing environmental processes and pathways. It examines techniques for the use of various radioactive and stable isotopic tracers. Instruction in the use of these tracers will be included and practical applications of relevance to current environmental issues will be discussed. Prerequisites: 10 university credits including at least one laboratory-based science credit. *Environmental & Resource Science 313H* is recommended.

Environmental & Resource Science 316H – Community-based natural resource management

Community natural resource management. The course examines critically and constructively community-based experiences in the management of natural resources. It explores the topic of self-regulation by resource interest groups, drawing on cases from fisheries, forestry, wildlife and integrated sectors. Traditional and developmental approaches are contrasted. Prerequisite: one 200-level ERS credit. *T. Whillans*

Environmental & Resource Science 320 – Management of forest ecosystems

This course offers an appreciation of the problems in managing forest ecosystems. It looks at the ecological processes which create and maintain forests and at how foresters attempt to manage them, and the environmental consequences of forestry practices. It then examines case studies, drawn from Ontario and other parts of the world.

Prerequisite: *Environmental & Resource Science-Biology 202* or *Environmental & Resource Science 221H*.

Environmental & Resource Studies 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. Prerequisites: 10 university credits including *Environmental & Resource Science 100*.

Environmental & Resource Studies 330 – Environmental ethics

A critical examination of issues arising from the impact of industrial and development policies on the natural environment. The focus will be on such themes as: the domination of nature, the ethics of scarcity, animal and environmental rights, social benefit and technological risk, and the debate among deep ecologists, social ecologists and ecofeminists over the care of the earth. Prerequisite: one 200-level Environmental & Resource Studies or Philosophy credit. *D. Holdsworth*

Environmental & Resource Studies – Canadian Studies – Geography 333H – Wilderness resources (See Geography)***Environmental & Resource Science 335H – Ecological agriculture***

An exploration of the theory, scientific basis and practice of ecological agriculture, sustainable agriculture and intensive versus traditional systems. Nutrient cycles and genetic resources are considered. Prerequisites: *Environmental & Resource Science-Biology 202H*, or *Environmental & Resource Science 221H*. Interested students who do not have the required ecological science background, but who have successfully completed *Environmental & Resource Studies-Canadian Studies 250*, may enter the course but must be prepared to do additional background reading. *T. Hutchinson and D. Evans*

Environmental & Resource Science – Chemistry 342H – Instrumental analysis I
(See Chemistry)***Environmental & Resource Science – Chemistry 343H – Instrumental analysis II***
(See Chemistry)***Environmental & Resource Science 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 modelling systemic responses. Emphasis will be on questions other than climatic change such as tropospheric ozone and acid rain. Prerequisite: *Chemistry 100*. *W. Evans*

Environmental & Resource Science 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: *Environmental & Resource Science-Biology 202* or *Environmental & Resource Science 221H* or *Environmental & Resource Studies-Canadian Studies 250*. T. Whillans

Environmental & Resource Science 355 – Pollution ecology

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, air and soil. Prerequisites: *Environmental & Resource Science 221H* or *Environmental & Resource Science – Biology 202*. M. Havas and T. Hutchinson

Environmental & Resource Science – Geography 356H – Pedology (See Geography)**Environmental & Resource Studies – Comparative Development Studies 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: *Comparative Development 200* or *Environmental & Resource Studies – Canadian Studies 250*. S. Bocking and J. Clapp

Environmental & Resource Science – Geography 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: *Environmental & Resource Science 221H* or *Geography 250* or *Geography – Science 240*. *Environmental & Resource Science – Geography 356H* is recommended. R. Ponce

Environmental & Resource Science 370 – Environmental toxicology

This course introduces students to the chemical, physical and toxicological properties of organic and inorganic toxicants in aquatic and terrestrial environments. Prerequisites: *Biology 101*, or *Biology 102H* and *103H*, *Environmental & Resource Science – Geography – Biology 208H*, and *221H* or the equivalent of one 200-level Chemistry course. *Biology 206H* and *207H* are recommended. C. Metcalfe

Environmental & Resource Studies – Economics 381H – Environmental economics
(See Economics)**Environmental & Resource Studies/Science 383, 384H – 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.”

Environmental & Resource Studies/Science 385, 386H, 387H, 388H – Field course

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

Environmental & Resource Studies/Science 390, 391H, 392H, 393H – Reading course

This is a research course on a specific topic. The course is only open to ERS majors or joint majors with two B credits (or better) in ERS courses. Written permission must be obtained from the appropriate instructor and ERS Program Chair prior to early registration.

Environmental & Resource Science 395 – Special topic. Biological effects of electro/geomagnetic fields: BEEF

Students will be able to pursue their interest within the broader area of the biological effects of electro/geomagnetic fields. Projects will focus on one of a variety of topics, such as: the occupational exposure to EMFs, epidemiological studies and EMFs, cancer and EMFs, risk and EMFs, spatial geomagnetic pattern and health, air ionization and health, healing and energy fields, energy fields in living organisms, etc. Students will work independently but will share their findings with others in the course. Prerequisites: *Environmental & Resource Science 100* and 10 university credits. First year Physics is recommended. *M.Havas*

Environmental & Resource Science/Studies 401/402D – Thesis

This is a major research project combining one credit for Environmental & Resource Science/Studies and one for the other discipline in a joint major, or counting as two credits for Environmental & Resource Science/Studies. This project course requires permission of the ERS Chair and a minimum average in ERS credit courses of 75%. Candidates for the thesis course that begins in September should apply for entry during Early Registration. Acceptance in the thesis course is dependent upon the candidate having made arrangements with a suitable ERS supervisor. Students are required to attend a regularly scheduled two-hour workshop in which techniques and approaches to thesis research are presented and discussed. *Co-ordinator: M. Havas*

Environmental & Resource Science – Geography 404H – Hydrochemical fluxes in the hydrosphere (See Geography)**Environmental & Resource Science – Biology – Geography 406H – The geochemistry of natural waters**

This course is a graduate level course open to a limited number of fourth-quarter students with appropriate qualifications. The course will examine the chemical and physical properties of water with an emphasis on those parameters which influence the concentrations and distribution of contaminants in the aquatic environment. Topics will include the hydrologic cycle, the carbonate system and pH control, weathering and water chemistry, redox equilibria and hydrologic transport. Prerequisites: Two Chemistry credits. *Biology 305* or *Geography 353H* are recommended as co- or prerequisites. *D.Evans*

Environmental & Resource Science – Biology – Geography 407H – The fate of contaminants in the aquatic environment

This course is a graduate level course open to a limited number of fourth-quarter students with appropriate qualifications. The course will emphasize the mathematical modelling of the fate and distribution of aquatic contaminants, including models for toxic metals, organic xenobiotics and groundwater contaminants. Basic algorithms and assumptions of contaminants models will be discussed and students will get hands-on experience in applying existing models (e.g. MINTEQ, QWASI). An emphasis will be placed on using models to determine the dominant pathways influencing the fate of inorganic and organic contaminants in the aquatic environment. Prerequisite: *Environmental & Resource Science – Geography-Biology 406H*. *D. Evans*

Environmental & Resource Science – Biology 412H – Environmental carcinogenesis

This course introduces students to the epidemiological, toxicological and molecular basis of carcinogenesis in humans, with an emphasis on environmental carcinogenesis. Prerequisites: *Biology 101*, or *Biology 102H* and *103H*, and *Environmental & Resource Science – Geography – Biology 208H* and *Environmental & Resource Science 221H*. *Biology 206H* and *207H* are highly recommended. *C. Metcalfe*

Environmental & Resource Science – Biology 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 covered include stock assessment techniques, fisheries enhancement through stocking and fertilization, management of salmonids, cod, lake trout and panfish, and local management initiatives. Prerequisite: *Environmental & Resource Science – Biology 202* or *Environmental & Resource Science 221H*. A course in aquatic science (*Environmental & Resource Science 351H*, *Biology 305* or *Biology 314H*) is recommended. Interested students who do not have the required ecological science background, but who have successfully completed *Environmental & Resource Studies – Canadian Studies 250* may take the course, but must be prepared to do additional background reading. *M. Fox*

Environmental & Resource Studies 425H – 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. Prerequisites: minimum of 10 university credits. *Environmental & Resource Studies 325H* (Introduction to environmental law) is recommended.

Environmental & Resource Science 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: *Environmental & Resource Science 100* or *Geography 101* or *Physics 100* or *Biology 101* or *Biology 103H* and *104H*; 10 university credits. *W. Evans and T. Hutchinson*

Environmental & Resource Science – Biology 439H – Conservation biology

(See Biology)

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

(See Chemistry)

Environmental & Resource Science – Geography 445H

– Spatial modelling and geographical information systems (See Geography)

Environmental & Resource Science 452H – Restoration ecology

This course is about the science of restoring and rehabilitating ecosystems. Principles, applications and practical case studies are covered. No regular field or laboratory work is scheduled but some required field site visits are planned. Prerequisite: *Environmental & Resource Science – Biology 202* or *Environmental & Resource Studies – Canadian Studies 250*. *T. Hutchinson and T. Whillans*

Environmental & Resource Studies – Politics – Canadian Studies 460H

– Public policy in global perspective (See Political Studies)

Environmental & Resource Studies – Comparative Development – Politics 461H – Global environmental policy

The course focuses on perspectives, actors, institutions, and economic relationships as they relate to global environmental policy. The aim is to provide students with a solid understanding of linkages between the global political system and the natural environment. Recommended: one of *Environmental & Resource Studies – Comparative Development 360*, *Environmental & Resource Studies-Canadian Studies-Politics 460a*, or *Politics 220*. *J. Clapp*

Environmental & Resource Science – Geography 464H – Watershed management in developing countries

The Integrated Ecosystems Management (IEM) approach is used in this course as both a paradigm for watershed planning and management, and as a tool for analysis. The course will deal with methodological and practical aspects involving the different phases of watershed planning and management, including assessment and decision-making. The course focuses on management of watersheds in the developing world, and will introduce students to strategies for planning and managing watersheds through case studies. Prerequisites: *Environmental & Resource Science – Biology 202, Geography 250, or Environmental & Resource Studies – Canadian Studies 250*, plus one 300-level credit in ERS or Geography. *R. Ponce*

Environmental & Resource Studies – Politics 465 – Green politics in theory and practice

An examination of theoretical and practical dimensions in the green movement from a perspective that combines attention to key concepts with case studies exploring concrete political dynamics in a variety of countries. Prerequisite: one of *Environmental & Resource Studies – Canadian Studies – Politics 310, Environmental & Resource Studies 330, 3951, Politics 233, 335, 336* or permission of the instructor. *D. Torgerson*

Environmental & Resource Studies – Canadian Studies 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 university credits. *S. Bocking*

Environmental & Resource Studies – Canadian Studies 470 – Bioregionalism

A research course focused on ecological and community-based planning and development, applied to the Haliburton Highlands. The literature on bioregionalism is examined critically and then used constructively, if loosely, to frame primary research. Students undertake relatively intensive independent projects, often in co-operation with members of communities in Haliburton. *T. Whillans and J. Wadland*

Environmental & Resource Studies 475 – Group problem solving

This course focuses on group decision-making, problem recognition and problem resolution with respect to environmental matters. Concepts to be explored include communication, co-operation, shared vision, negotiation and group bias. Prerequisites: 10 university credits including *Environmental & Resource Science 100*. *M. Havas and S. Regoczei*

Environmental & Resource Studies/Science 483, 484H – 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."

Environmental & Resource Studies/Science 485, 486H, 487H, 488c – Field course

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

Environmental & Resource Studies/Science 490, 491H, 492H, 493H – Reading course

This is a research course on a specific topic. The course is only open to ERS majors or joint majors with a B average (or better) in ERS courses. Written permission must be obtained from the appropriate instructor and ERS Chair prior to Early Registration.

ENVIRONMENTAL CHEMISTRY

Program Co-ordinators

Chair of Department of Chemistry

J. M. Parnis, B.Sc. Ph.D. (TORONTO)

Chair of Environmental & Resource Studies

Michael Fox, B.Sc. (PENNSYLVANIA), M.E. DES.(CALGARY), Ph.D. (QUEEN'S).

Professors

See listings of faculty in Chemistry and Environmental & Resource 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

- The Environmental Chemistry program is a sequence of courses offered by the Chemistry department and the Environmental Resource Studies Program that compose an integrated whole. It is not available as a joint-major degree.
- *Environmental & Resource Science 314H, 355, and 435H* are recommended for both the Honours and the General program
- Students wishing to transfer to a single-major program in Chemistry or Environmental Resource Science should consult the chair of the appropriate department 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 consists of 20 credits. At least 12 credits in Chemistry and Environmental & Resource Science. The program must include:

- *Chemistry 100, 200, 212, 240H, 321H, 322H, 408H, and Chemistry – Environmental & Resource Science 241H, 342H, 343H*
- *Environmental & Resource Science 100, 345H, 370, 406H, and 407H*
- two additional credits in Chemistry or Environmental & Resource Science beyond the 200-level
- *Biology 101 or 102H and 103H*
- one credit in *Mathematics 110* or in *Mathematics 105H* and another half credit in Mathematics

The single-major General program consists of 15 credits. At least nine credits in Chemistry and Environmental & Resource Science. The program must include:

- *Chemistry 100, 200, 212, 240H, and Chemistry – Environmental & Resource Science 241H*
- *Chemistry 321H or 322H*
- *Chemistry – Environmental & Resource Science 342H or 343H*
- *Environmental & Resource Science 100, 345H, and 370*
- 1.5 additional credits in Environmental & Resource Science
- *Biology 101 or 102H and 103H*
- one credit in *Mathematics 110* or in *Mathematics 105H* and another half credit in Mathematics

FRENCH STUDIES

See Modern Languages

GEOGRAPHY

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Web: www.trentu.ca/geography

Associate Professor and Chair of the Department

P. M. Lafleur, B.Sc. (BRANDON), M.Sc. (TRENT), Ph.D. (McMASTER) (on leave Winter session 2000)

Professors Emeriti

W.P. Adams, B.A. (SHEFFIELD), M.Sc., Ph.D. (McGILL); F. M. Helleiner, M.A., Ph.D. (WESTERN ONTARIO)

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 session 2001); J.G. Cogley, M.A. (OXFORD), M.Sc., Ph.D. (McMASTER); J.S. Marsh, B.A. (READING), M.Sc. (ALBERTA), Ph.D. (CALGARY) (on leave Winter session 2001); G.A. Nader, B.A. (LONDON), Ph.D. (DURHAM); C.H. Taylor, M.A. (CANTERBURY), Ph.D. (McGILL)

Associate Professors

C.L. McKenna Neuman, B.Sc. (QUEEN'S), M.Sc. (GUELPH), Ph.D. (QUEEN'S); S. E. Wurtele, B.Sc. (TRENT), Ph.D. (QUEEN'S)

Assistant Professors

R. Ponce-Hernandez, B.ENG., M.Sc. (CHAPINGO), D.PHIL (OXFORD)

Technicians/Demonstrators

A.L. Crechiolo, M.A. (WILFRID LAURIER); M.A. Ecclestone, B.Sc. (TRENT), M.Sc. (GUELPH); S. Gardiner

Conjunct Professor

K. Beesley, B.E.S., Ph.D. (WATERLOO)

The Geography department has a strong emphasis on field-based learning and interdisciplinary study. Many courses are cross-listed with other departments and programs, including the Northern and Polar Studies Emphasis Program and a Geographical Information Systems Program linked with Sir Sandford Fleming College. Students in the Honours program are encouraged to explore the thesis option as a valuable training for post-graduate studies and job-related experience.

Notes

- *Geography 101* or *102H* and *103H* are prerequisites for most upper level Geography courses. Students should check individual course descriptions for prerequisites.
- It is possible to take certain courses at the 300-level immediately after *Geography 101* or *102H* and *103H*, and certain courses at the 400-level immediately after *Geography 208H* and *Geography 211H* or *251H*.
- Most courses at the 300-level are offered in alternate years.
- Courses in Geography fulfilling University science course requirements for the B.Sc. are marked (Sc) in the individual course descriptions.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Registrar's Office 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

- The Geography department offers both a B.A. and a B.Sc. degree.
- Student in the joint-major program who have successfully completed *Psychology 215* are exempt from the *Geography 208H* requirement.
- It is recommended that students with an interest in Applied Geography incorporate the Geographic Information Systems joint Diploma program with Sir Sandford Fleming College (SSFC/GIS), into their Honours program (consult the Joint Programs section of the calendar). For students in the SSFC/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	357H	332H	373H
271H	411H	333H	376H
		337H	380H
		363H	464H

- For the single-major and joint-major General B.A. programs, *Geography 386H* and one of *Geography 303H* and *411H* are highly recommended

The single-major Honours program consists of 20 credits. At least 10 credits in Geography, including:

- *Geography 101* or *102H* and *103H*
- *Geography 208H* and *251H*
- one credit from category A
- one credit from category B (0.5 for SSFC/GIS)
- two credits from category C (1.5 for SSFC/GIS)
- one credit from category D
- three additional credits (4 for SSFC/GIS)

The joint-major Honours program consists of 19.5 or 20 credits (depending on the joint-discipline). At least eight credits in Geography, including:

- *Geography 101* or *102H* and *103H*
- *Geography 208H* and *251H*
- one credit from category A
- half-credit from category B
- one credit from category C
- one credit from category D or *Geography 401*
- 2.5 additional credits

The single-major General program consists of 15 credits. At least six credits in Geography, including:

- *Geography 101* or *102H* and *103H*
- *Geography 208H* and *251H*
- one credit from category A
- one credit from category C
- two additional credits

The joint-major General program consists of 15 credits. At least five credits in Geography, including:

- *Geography 101* or *102H* and *103H*
- *Geography 208H* and *251H*
- one credit from category A
- one credit from category C
- one additional credit

Bachelor of Science program

- 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
245	357H	342H	365H
250	411H	351H	404H
		353H	406H
		354H	407H
		355H	445H
			464H

- For the single-major and joint-major General B.Sc. programs, *Geography 386H* and one course from category B are highly recommended.

The single-major Honours program consists of 20 credits. At least 10 credits in Geography.

The program must include:

- *Geography 101* or *102H* and *103H*
- *Geography 208H* and *211H*
- one credit from category A
- one credit from category B (0.5 for SSFC/GIS)
- two credits from category C (1.5 for SSFC/GIS)
- one credit from category D
- three additional credits in Geography (4 for SSFC/GIS)
- one credit in Mathematics
- 14 science credits in the program as a whole

The joint-major Honours program consists of 19.5 or 20 credits (depending on the joint-discipline). At least eight credits in Geography. The program must include:

- *Geography 101* or *102H* and *103H*
- *Geography 208H* and *251H*
- one credit from category A
- 0.5 credit from category B
- one credit from category C
- one credit from category D or *Geography 401*
- 1.5 additional credits in Geography
- one credit in Mathematics
- 14 science credits in the program as a whole

The single-major General program consists of 15 credits. At least six credits in Geography.

The program must include:

- *Geography 101* or *102H* and *103H*
- *Geography 208H* and *211H*
- one credit from category A
- one credit from category C
- 2.5 additional credits in Geography
- one credit in Mathematics
- 11 science credits in the program as a whole

The joint-major General program consists of 15 credits. At least five credits in Geography.

The program must include:

- *Geography 101* or *102H* and *103H*
- *Geography 208H* and *211H*
- one credit from category A
- one credit from category C
- 1.5 additional credits in Geography
- one credit in Mathematics
- 11 science credits in the program as a whole

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

Geography 102H – Introduction to earth's physical environments (Sc)

This course focuses upon the elements and processes that make up Earth's physical environment: energy, air, water, climate, weather, geology, landforms and soil. It is designed to provide a solid framework for understanding and interpreting some of the powerful forces that shape our surroundings; as for example, hurricanes, climatic change, earthquakes, floods, drought, landslides and dust storms. Two-hour lecture weekly, three-hour laboratory exercises fortnightly, local field work. *C. McKenna Neuman*

Geography 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. Two-hour lecture weekly, three-hour laboratory exercises fortnightly, local field work. *S. Wurtele*

Geography – Canadian Studies – Environmental & Resource Studies 200H – Reconsidering Canada: Culturing the land (see Canadian Studies)

Geography – Canadian Studies – Environmental & Resource Studies 203H – Reconsidering Canada: the nature of urbanism

Urban landscapes are often portrayed as the antithesis of wilderness. This course explores and challenges traditional conceptualizations and representations of Canadian cities. It considers various perspectives on the centrality of the natural environment within urban spaces. Emphasis is on the spatial dimensions of aesthetics and design, governance, resources, and the power of different groups within cities. Prerequisite: *Canadian Studies – Geography – Environmental & Resource Studies 200H*. Two-hour lecture and tutorial weekly. *S. Wurtele*

Geography – Environmental & Resource Science – Biology 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. Laboratories involve computer-based assignments providing practical experience in statistical application. Prerequisite: *Geography 101 or Geography 102H and Geography 103H or Environmental & Resource Science 100 or Biology 101*. *Mathematics – Statistics 150* and 100-level computing experience are recommended. Two one-hour lectures and one three-hour laboratory weekly. *P. Lafleur*

Geography – Environmental & Resource Science 209H – Introduction to Geographical Information Systems (Sc)

The course provides an introductory level exposure to the fundamentals of GIS technology and applications. The components of GIS are described and its capabilities and related operations reviewed. The essentials of spatial data structures and data storage, and the retrieval and manipulation of data are examined. The course has laboratory exercises with different data structures to illustrate concepts and operations. Prerequisite: *Geography – Environmental & Resource Science – Biology 208H*. Elementary or intermediate-level experience with microcomputers and their operating systems is desirable. Two one-hour lectures weekly and three-hour laboratory work fortnightly. *R. Ponce*

Geography 211H – Methods for physical geographers (Sc)

This course trains students in a variety of data acquisition, processing and analytical techniques specific to the earth sciences. These techniques include terrestrial survey, remote sensing, and air photo interpretation. Fundamentals of instrument design, calibration and installation are introduced. Exercises require use of spreadsheet and graphic presentation software. Prerequisite: *Minimum of 60% in Geography 101 or Geography 102H and Geography 103H or Environmental & Resource Science 100*. One-hour lecture and three-hour lab weekly. Field work. *C. McKenna Neuman*

Geography – Anthropology – Classical Civilization 223H – The ancient city
(See Ancient History and Classics)

Geography 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: *Geography 101* or *Geography 102H* and *Geography 103H*. Two-hour lecture weekly and seminar fortnightly. *Staff*

Geography – Science 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.

Geography 245 – Climatology (Sc)

A study of the physical mechanisms underlying the climate system. Course material is divided along two spatial scales: term one deals with the surface boundary layer and energy and mass exchanges between the surface and atmosphere, term two focuses on global and synoptic climate processes and highlights contemporary global climate issues. Prerequisite: *Geography 101* or *Geography 102H* and *Geography 103H* or *Environmental & Resource Science 100*. Two-hour lecture weekly and occasional two-hour laboratory. *G. Cogley and P. Lafleur*

Geography 250 – Geomorphology (Sc)

Geomorphic processes and landscape evolution. Running water, ice, and other landforming agents. Geometrical and mechanical explanation of forms and processes. The imprint of the Ice Ages. The physical landscape and its interaction with the human environment. Prerequisite: *Geography 101* or *Geography 102H* and *Geography 103H* or *Environmental & Resource Science 100*. Two-hour lecture weekly and two-hour laboratory fortnightly. *G. Cogley and C. McKenna Neumann*

Geography – Environmental & Resource Studies 251H – Methods in human geography and environmental studies

This course will focus on methods used in both professional and academic contexts. Methods examined in the course include surveys, content analysis, depth interviews, ethnography, focus groups and action research. Emphasis will be on application of the methods to environmental problem-solving and environmental research contexts, particularly at the local/regional level. Prerequisite: Minimum of 60 % in *Geography 101* or *Geography 102H* and *Geography 103H* or *Environmental & Resource Science 100*. Two-hour lecture and one-hour seminar weekly. *Staff*

Geography – Canadian Studies 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: *Geography 101* or *Geography 102H* and *Geography 103H*. Two-hour lecture and one-hour tutorial weekly, field work and a three-day field trip to Quebec. *A. Brunger*

Geography – Canadian Studies 271H – Urban systems

The nature of urban geography; the historical development of urban systems, emphasizing Canada; the location, size, function, and spacing of cities at national and regional levels. (Excludes *Geography 270*) Prerequisite: *Geography 101* or *Geography 102H* and *Geography 103H*, or *Economics 101H* and *Economics 102H*, or *Sociology 100*. Two-hour lecture weekly and one-hour tutorial weekly. *Staff*

Geography 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: *Geography 201* or *208H* or *Mathematics – Statistics 150*. Two-hour lecture weekly and occasional three-hour laboratory. *G. Nader*

Geography – Women's Studies – Canadian Studies 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. Excludes GOCAWS396H. Prerequisite: *Geography 101* or *Geography 102H* and *Geography 103H* or *Women's Studies 100* or permission of the instructor. Three-hour lecture and one-hour seminar weekly, occasional workshops.

Geography – Canadian Studies 332H – Settlement geography

Process and forms of modern settlement in Canada and "New Frontier" lands such as Australia, Siberia, Brazil and Israel/Palestine. Discusses themes of emigration and immigration; frontier, group and ethnic settlement within both metropolitan and non-metropolitan settings. Prerequisite: *Geography 263H*. Two-hour lecture and one-hour tutorial weekly. *A. Brunger*

Geography – Canadian Studies – Environmental & Resource Studies 333H – Wilderness resources

An examination of the wilderness concept and the history, planning, and management of wilderness resources with special reference to national parks and Canada.

Prerequisite: *Geography 231H* or *Environmental & Resource Studies 200* or *Environmental & Resource Studies 250*. Two-hour lecture weekly and one-hour tutorial fortnightly. *Staff*

Geography – Canadian Studies 337H – Recreation geography issues

Examines the characteristics of, and issues pertaining to, recreation, tourism, and parks in various environments from the city to the wilderness and abroad. Prerequisite:

Geography 231H. Two-hour lecture weekly and seminar fortnightly. *Staff*

Geography 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: *Geography 245*. Two-hour lecture weekly, two-hour lab occasionally. *C. Cogley*

Geography 342H – Hydrometeorology (Sc)

Studies in snow and ice. This course emphasizes physical and geographical aspects of different ice forms and their implications for human and biological activity.

Measurement of snow and ice are studied in practical laboratories. A mandatory field trip is scheduled during the Winter Reading Week, at cost to the students. Prerequisite: *Geography 245* or permission of instructor.

Geography 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, including the next one. Prerequisite: *Geography 250* or *Geography – Science 240*. Two-hour lecture weekly and two-hour laboratory fortnightly.

Geography 353H – Hydrology (Sc)

Study of the movement of water through the environment with emphasis on terrestrial aspects including interception, infiltration, soil moisture, groundwater, surface runoff, and stream-flow, also covering human impact on hydrological processes. Prerequisite: *Geography 245*. Two-hour lecture weekly, two-hour lab fortnightly, field work. *G. Cogley*

Geography 354H – Fluvial geomorphology (Sc)

Morphology of rivers and river systems; relationships between process and form. Erosion, transportation and deposition of sediments; channel morphology, the drainage basin as a geomorphic unit; human impact on river morphology. Prerequisite: *Geography 250* or *Geography – Science 240* or permission of instructor. Two-hour lecture weekly and two-hour lab fortnightly, field work.

Geography 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: *Geography 353H* and *Mathematics 105H* or *Mathematics 110* or equivalent. Two-hour lecture weekly and two-hour laboratory fortnightly.

Geography – Environmental & Resource Science 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: *Geography 250* or *Geography-Science 240* or *Environmental & Resource Science – Biology 202* or permission of instructor. Two-hour lecture weekly, two-hour lab fortnightly. *J. Buttle*

Geography 357H – Modelling applications in physical geography (Sc)

The course will emphasize the use of modelling techniques in various aspects of physical geography. Topics to be 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 a variety of aspects of physical geography. Prerequisite: *Geography 201* or *Geography 208H* and either *Geography 245* or *Geography 250* and either *Mathematics 105H* or *Mathematics 110* or OAC Calculus. Two-hour lecture weekly, two-hour lab fortnightly.. *J. Buttle*

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

Geography of late-eighteenth and nineteenth century Canada. Themes pursued include environmental perception and transformation, immigration, settlement, cultural and ethnic patterns, social institutions, industrialization, transportation, urbanization, and regional emergence within Confederation. Individual student research projects are encouraged on aspects of early Canada, particularly within the local setting of southern Ontario, using primary sources such as early maps, surveys, diaries, sketches, and photographs. Prerequisite: *Geography 263H*. Two-hour lecture and tutorial weekly, field work.

Geography – Canadian Studies 364H – Geography of the Polar regions

Study of selected aspects of the Polar regions with considerable reference to northern Canada but with the deliberate intention of developing comparisons between it and other parts of the Polar regions. Prerequisite: *Geography 101* or *Geography 102H* and *Geography 103H* or permission of instructor.

Geography – Environmental & Resource Science 365H – Soil management and conservation (Sc) (See Environmental & Resource Studies) *R. Ponce***Geography – Canadian Studies 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: *Geography 271H*. Two-hour lecture weekly and tutorial fortnightly.

Geography – Canadian Studies 373H – Internal city structure

The city as a system; historical perspectives on urban change; the internal organization of cities; social and economic patterns and processes within cities; contemporary urban geographic problems. Prerequisite: *Geography 271H*. Two-hour lecture weekly, two-hour lab fortnightly. *Staff*

Geography – Canadian Studies 376H – The urban-rural fringe

Urban-rural land conflicts occurring in the areas surrounding major cities, the problems arising from these conflicts, and the types of policy required to resolve them. A particular focus will be the impact of urbanization on the countryside in Canada. Prerequisite: *Geography 101* or *Geography 102H* and *Geography 103H*, or *Economics 101H* and *Economics 102H*, or *Sociology 100*. Two-hour lecture and tutorial weekly.

Geography – Canadian Studies 380H – Regional economic development

Analysis of how a region grows; regional responses to national economic development; the land use structure of regions; regional planning principles; review of Canadian regional planning policies. Prerequisite: *Geography 101* or *Geography 102H* and *Geography 103H* or *Economics 101H* and *102H*. (Support course for Comparative Development Studies.) Two-hour lecture weekly, occasional workshop. *Staff*

Geography 386H – Field research in geography (Sc)

This course is highly recommended, especially for those pursuing the honours thesis option. Students will learn the skills of research proposal writing, project design and field management and will design and carry out a research project in a geographical specialization of their own choosing. The course centers on a field trip during the Reading Week, when the research projects will be conducted. Prerequisite: *Geography 201* or *211H* or *251H*. Minimum of six days in the field at cost to the student. One-hour lecture weekly and two-hour seminar occasionally.

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

Prerequisite: *Geography 101* or *Geography 102H* and *Geography 103H*. (Offered only if instructor is available.)

Geography 395, 396H, 397H, 398H – Special topic in geography

(Offered only occasionally)

Geography 398H – Special topic: Physical geography of cold regions (Sc)

This course addresses aspects of climatology and geomorphology unique to cold regions. It expands upon many of the fundamental principles addressed in the introductory courses in physical geography. Emphasis is placed upon the Canadian north, but other circumpolar settings are included in the treatment. Response of those environments to development and climate change emerges as one of the central themes of the course. Prerequisite: *Geography 101* or *Geography 102H* and *Geography 103H*, and either *GO240*, *GO245*, or *GO250*. Three one-hour lectures weekly. *C. McKenna Neuman*

Geography 401, 402D – Honours thesis (Sc)

Students will engage in a major research project entailing periodic meetings with faculty. Seminar presentations in Fall and Winter sessions on research. Students taking this course are strongly encouraged to obtain full details of it and begin preparation prior to registering for the course. *Geography 402D* is double-credit in Geography. *Geography 401* is single-credit because the same thesis is submitted to the other department/program in a joint-major. Prerequisite: two 300-level Geography full-course equivalents and a 70 % average in Geography courses. Students must obtain the approval of the department before March 31, 2000. *P. Lafleur*

Geography – Environmental & Resource Science 404H – Hydrochemical fluxes in the hydrosphere (Sc)

The 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. Prerequisite: *Geography 201* or *Geography 211H* and permission of instructor. Two-hour lecture weekly and two-hour laboratory fortnightly.

Geography – Environmental & Resource Science – Biology 406H – The geochemistry of natural waters (Sc)

This course is a graduate level course open to a limited number of fourth-quarter students with appropriate qualifications (See Environmental & Resource Studies)

Geography – Environmental & Resource Science – Biology 407H – The fate of contaminants in the aquatic environment (Sc)

This course is a graduate level course open to a limited number of fourth-quarter students with appropriate qualifications. (See Environmental & Resource Studies)

Geography 411H – Philosophy of geography

The evolution of geographical ideas, particularly concepts of place, region, environment, or organization of space by nature and by society; philosophy of science and history; ethical issues, academic and social prejudice in geographical studies, radical geography. Prerequisite: *Geography 201* or *Geography 208H* and *Geography 211H* or *Geography – Environmental & Resource Studies 251H*. Two-hour lecture and tutorial weekly. Note: Open to students in third quarter. *A. Brunger*

Geography 440 – Research in physical geography (Sc)

A seminar course on themes, methodologies and approaches of current major interest. Individual presentations based on directed readings and study. Prerequisite: two courses from B. Sc. Category C (see above). Three hours fortnightly. *C. Taylor*

Geography – Environmental & Resource Science 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 Trent-Fleming joint program in GIS.

Prerequisites: GIS Applications Specialist Certificate (or equivalent) and basic knowledge of Statistics (*Geography – Environmental & Resource Science 208H* or *Mathematics – Statistics 150*). Two one-hour lectures weekly and two-hour laboratory fortnightly.
R. Ponce

Geography – Environmental Resource Science 464H – Watershed management in developing countries (Sc)

(See Environmental Resource Studies) *R. Ponce*

Geography 470 – Research in human geography

A seminar course on themes, methodologies and approaches of current interest.

Individual presentations based on directed readings and study. Prerequisite: two courses from B.A. category C (see above). Three hours fortnightly. *J. Marsh and A. Brunger*

Geography 495, 496H, 498H – Special topic in Honours geography

Systematic and/or regional geography on themes, problems and questions of interest to individual faculty. Prerequisite: fourth quarter standing and permission of the instructor. (Offered only if instructor is available.)

GERMAN STUDIES

See Modern Languages

GREEK

See Ancient History and Classics

HISPANIC STUDIES

See Modern Languages

HISTORY

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Professor and Chair of the Department

S.D. Standen, B.A. (BRITISH COLUMBIA), M.A. (OREGON), Ph.D. (TORONTO)

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); A. Wilson, M.A. (DALHOUSIE), Ph.D. (TORONTO)

Professors

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) (*on sabbatical 2000 - 2001*); J.S. Milloy, B.A. (ST. PATRICK'S), M.A. (CARLETON), D.Phil. (OXFORD) (*on sabbatical 2000 - 2001*); P.M. Morton, M.A., Ph.D. (TORONTO) (*on leave*); S.T. Robson, B.A. (BRITISH COLUMBIA), D.Phil. (OXFORD); J. Sangster, B.A. (TRENT), M.A., Ph.D. (McMASTER) (*on sabbatical Winter 2001*); J.E. Struthers, M.A. (CARLETON), Ph.D. (TORONTO); J. Syrett, B.A. (COLUMBIA), M.A., Ph.D. (WISCONSIN); G. Taylor, B.A., Ph.D. (PENNSYLVANIA); K. Walden, M.A., Ph.D. (QUEEN'S).

Associate Professors

O. Andriewsky, B.A. (BROWN), M.A., Ph.D. (HARVARD) (*on sabbatical 2000 - 2001*); 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); D. M. K. Sheinin, B.Sc. (TORONTO), M.A., Ph.D. (CONNECTICUT)

Assistant Professors

F. Harris Stoertz, B.A. (CALGARY), M.A., Ph.D. (UCALIF); T. J. Stapleton, B.A. (MEMORIAL), M.A., Ph.D. (DALHOUSIE); R.A. Wright, B.A. (TRENT), M.A., Ph.D. (QUEEN'S)

Adjunct Faculty

M. Elbl, M.A. (CHARLES), M.A. (TORONTO); C. Forsberg, B.A., B.Ed., M.A. (CALGARY), Ph.D. (QUEEN'S); D. Schweitzer, B.A., M.A. (GUELPH), Ph.D. (LONDON); S.D. Grant, M.A. (TRENT); N. Thornton, B.A. (TRENT), B.Ed. (OTTAWA), Ph.D. (ADELAIDE); H. Vreugdenhil, B.A. (REDEEMER), M.A. (TORONTO);

Associated Faculty

Ancient History, K.H. Kinzl, D.Phil. (VIENNA); D.F.R. Page, B.A. (SHEFFIELD)

Notes

- After completion of four credits at the 100-level, students will normally enrol in 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 the 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 some courses. Please refer to the Academic Timetable for information about Early Registration procedures.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Registrar's Office 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

- 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	
200	211	3031H	200	335
205	221	304	205	336
230	230	3071H	220	350
2401H	235	3072H	223	351
2471H	2471H	308	2401H	360
276	2472H	3101H	2402H	370
3031H	254	3102H	276	380
311	255	311	320	3951H
345	270	312	330	3952H
350	300	3161H		399
360	301	3162H		
380	3021H	345		
	3022H	3953		

- One credit in Classical History at an upper level (except for *Classical History 201*) may be counted as a credit in History. A second credit in Classical History may be counted as a credit in History, with the permission of the chair of the department.
- Admission to courses at the 400-level normally requires prior completion of 15 credits, including five History credits. Students may apply for admission after completion of 13 credits, including five History credits, in which case the application must be approved by the chair of the department.
- The last four credits in the Honours program must include three credits at the 400-level in History in the single-major program, and two in the joint-major program.

The single-major Honours program consists of 19 credits. At least nine credits in History, including:

- *History – Canadian Studies 101*, *History 120*, or *170*
- three credits at the 200- or 300-level
- two additional credits at the 300-level
- three credits at the 400-level

The joint-major Honours program consists of 19 or 19.5 credits (depending on the joint-discipline). At least seven credits in History, including:

- *History – Canadian Studies 101*, *History 120*, or *170*
- three credits at the 200- or 300-level
- one additional credit at the 300-level
- two credits at the 400-level

The single-major General program consists of 15 credits. At least six credits in History, including:

- *History – Canadian Studies 101*, *History 120*, or *170*
- three credits at the 200- or 300-level
- two additional credits at the 300-level

The joint-major General program consists of 15 credits. At least five credits in History, including:

- *History – Canadian Studies 101*, *History 120*, or *170*
- three credits at the 200- or 300-level
- one additional credit at the 300-level

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

History – Canadian Studies 101 – 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. Weekly lectures, workshops and tutorials. *R. Wright, M. Lacombe and staff*

History 120 – Western European history from the Middle Ages to the present

Subjects covered include feudalism, the Renaissance, the Enlightenment, the French Revolution, the 19th-century women's movement, the industrial revolution, the world wars, Nazism, the Russian Revolution, the Holocaust, and Europe since 1945. Weekly lectures and tutorials. *F. Harris Stoertz and Staff*

History 170 – World history

Themes in world history since 1500. The course focuses on how the major continents – Africa, Asia, Europe and the Americas – have shaped our global community and emphasizes the richness and diversity of the human experience. Weekly lectures and tutorials. *J. Syrett and staff*

History 200 – The expansion of Europe from 1450-1825

This course explores the origins of the European overseas expansion; the participating European powers; the relationship between explorations, trade, colonization; the relative impact of the expansion on the societies of the Americas, Africa and Asia; and its repercussions in European politics, economy, lifestyle and intellectual life. Two hour lecture and one hour workshop weekly. *I. Elbl*

History 205 – The medieval panorama

History of Western Europe from the birth of the Christian religion and the collapse of the Roman Empire in the West to the calamities and innovations of the fourteenth and fifteenth centuries. In addition to social, political, economic, and religious developments, special attention will be paid to the culture, experiences, and expectations of women and men. Two lectures and one tutorial weekly. *F. Harris Stoertz*

History 211 – The United States from 1775-1880

The roots of modern America: revolution, nation building, civil war, reconstruction. Themes include accommodation with British North America and with Native Americans; reform movements related to slavery abolition, industrialization, women, religion, nature. Two hour lecture and two hour workshop weekly. *E. Jones*

History 220 – Europe from the Enlightenment through World War II

A study of problems in the development of modern Western society from various perspectives, using a variety of modern and contemporary sources. Lectures and tutorials. *Staff*

History – Sociology 223 – The other Europe

Eastern Europe from 1848 to the present, with special focus on the "small nations" and minorities of East Central Europe: the Czechs, Poles, Jews, and Ukrainians. Particular attention will be devoted to modernization and nation-building, the social aspects of integration and disintegration, the main features of the Communist system, and the problems of post-Communist cultural and economic reconstruction. Lecture and workshop weekly.

History – Canadian Studies 230 – The making of Canada, 1760-1873

War, politics and society in British North America from the Conquest to Confederation. Weekly lecture and tutorial. *Staff*

History – Canadian Studies 235 – Canada since 1914

National history with a focus on domestic issues, development and policy in the 20th century. Weekly lecture and tutorial.

History – Comparative Development 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, focusing on diversity and change in African societies. Themes include the development of pre-colonial technology and trade, state formation, and Africa's incorporation in the growing world economy. Lectures and seminars. *T. Stapleton*

History – Comparative Development 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 persistent problems such as poverty and ethnic tensions. Lectures and seminars.

T. Stapleton

History – Comparative Development 2471H – Introduction to Latin America, 1500 – 1830

Topics include colonialism, the political and cultural structures of conquest society, aboriginal history, everyday forms of resistance, slavery and plantation economies, problems of race and ethnicity, as well as the origins of Mexico, Brazil, Argentina, Cuba and other countries. Lecture and tutorial weekly. *D. Sheinin*

History – Comparative Development 2472H – Introduction to Latin America, 1800 – 1990

From the wars of independence through the formation of modern nation states, this course traces the political, social and cultural histories of Latin America with special emphasis on problems of modernization and progress, neo-colonialism, riot and rebellion, the rise of dictatorships, and twentieth-century revolution in Mexico, Cuba and Nicaragua. Lecture and tutorial weekly. *D. Sheinin*

History – Canadian Studies 254 – Canada and the modern experience

The course explores some characteristics of modernity since 1890, with Canada as an example. Among the topics examined will be photography, travel, crime, new styles of business, government and educational organization, and changing attitudes toward sex, death and religion. Lecture and tutorial weekly. *K. Walden*

History – Native Studies – Canadian Studies 255 – History of Indians of Canada

(See Native Studies)

History – Native Studies – Canadian Studies 270 – History and politics of the Métis

(See Native Studies)

History – Women's Studies 276 – Women in Britain and Europe

A survey of British/European women's history with special emphasis on the medieval, Renaissance and early modern periods. Lecture and tutorial weekly.

History – Canadian Studies – Sociology 300 – Canada: communities and identities

(See Canadian Studies)

History – Canadian Studies 3021H – Quebec 1867 – 1930

The making of modern Quebec to the eve of the Great Depression. Urban and industrial transformation, work immigration and migration, liberalism, nationalism, religion, gender, ethnicity, war, ideological conflict. Lecture and tutorial weekly.

History – Canadian Studies 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. Lecture and tutorial weekly.

History – Canadian Studies 3031H – France in America to 1763

The French encounter with America, including Amerindian relations, war, society, economy and ideology. Focus on Canada; comparisons with the Antilles and Louisiana. Lecture and tutorial weekly. *D. Standen*

History – Canadian Studies 304 – Canada and the world since 1900

Major themes include the evolution from "colony to nation," the World Wars, Canadian-American relations, Canada's role in the Commonwealth, the U.N. and NATO, peace-keeping, 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. Lecture and tutorial weekly. *J. Jennings*

History – Canadian Studies 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. Lecture and tutorial weekly. Field trip fee of \$50. *D. Standen*

History – Canadian Studies 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. Lecture and tutorial weekly.

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

Financial, technological, marketing, organizational and managerial strategies and structures which shaped the emergence of the modern corporation. The relationship of Canadian companies with the changing international business system. Lecture weekly and tutorial fortnightly. *G. Taylor*

History 3101H – Topics in the history of the United States, 1880 – 1900

The Age of Reform. Traces rapid political, economic, social and cultural changes in the decades following the Civil War, the emphasis on industrialization and its impact, urban growth, immigration, the conquest of First Nations in the West, the culture of work, and the growing influence of the United States in other countries. Seminar weekly. *D. Sheinin*.

History 3102H – Topics in the history of the United States, 1900 – 1930

The Progressive Era. Themes include the rise of big business and anti-trust movement, the emergence of the modern Democratic and Republican parties, cultural fixtures of the segregated south, the U.S. in World War I, Socialism and labour politics on the left, women in the cities, and problems of ethnicity and race in California. Seminar weekly. *D. Sheinin*.

History 311 – Colonial and revolutionary America, 1630-1800

Explorations in the social, economic, religious and intellectual aspects of political change in the thirteen colonies. Lecture weekly and tutorial fortnightly. *Staff*

History 312 – Contemporary United States

Lecture course on the social, cultural, political and foreign policy developments from the 1929 Crash to the present. Two lectures weekly, occasional workshops. *J. Syrett*

History – Canadian Studies – Women's Studies 3161H – Canadian women's history

Themes in Canadian women's history, with some reference to the North American experience, from the late 19th to mid-20th century. Lecture weekly and tutorial fortnightly. *J. Sangster*

History – Canadian Studies – Women's Studies 3162H – Canadian women's history

Selected themes in 20th century Canadian women's history with special focus on the themes of work, sexuality, politics and law. Attention will also be paid to theory and interpretive debates in women's history. Lecture weekly and tutorial fortnightly.

History 320 – Modern British history, from the Industrial Revolution to the era of Margaret Thatcher

Special emphasis on the Victorians, culture, class and gender, and the making of modern British society. Lecture weekly and tutorial fortnightly.

History – Canadian Studies 324 – Canada: The North

(See Canadian Studies)

History 330 – Modern German history, 1815 to the present

The political, social, economic and cultural history of the modern German nation, with special emphasis on the eras of Wilhelmine Germany, the Weimar Republic and the Third Reich. Lecture weekly and tutorial fortnightly. *C. Kay*

History 335 – The era of the First World War

Pairs of students meet the instructor every third week for a 90-minute class, to present and discuss brief research papers on topics of their choice concerning the war experience. Lecture weekly. *S. Robson*

History 336 – The era of the Second World War

Pairs of students meet the instructor every third week for a 90-minute class, to present and discuss brief research papers on topics of their choice concerning the war experience. Lecture weekly.

History – French 351 – La civilisation française

Offered in Nantes only (See Modern Languages, French Section)

History 370 – Russian history from the thirteenth century to the present

Special emphasis on the evolution of autocracy, the nature of the historic challenges to political authority, Russian attitudes towards the “West”, and the paradox of great power ambitions and economic backwardness. Lecture weekly, tutorial fortnightly.

History 380 – Early modern Europe

Selected social, economic, institutional and cultural features of early modern Europe (1450 – 1789), with special emphasis on the uneven transition of various European countries to modernity. Lectures and tutorial. *Staff*

History – Canadian Studies 3951H – Special topic: 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. Lectures and seminars.

T. Stapleton

History – Canadian Studies 3952H – Special topic: 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 against the Portuguese in Angola and Mozambique, the Rhodesian crisis of the 1960s and 70s, South Africa's campaign to destabilize the Frontline States in the 1980s, and post-Apartheid issues in the region. Lectures and seminars. *T. Stapleton*

History – Canadian Studies 3953 – Canada and Japan/Japan and Canada, 1848-1990

A course in comparative history, focussing on myths and misunderstandings, missions and migration, comparisons and contrasts. Weekly two-hour seminar.

History 399 – Historians and history

A critical study of how historians have aimed to understand the past and found differing interpretations. The impact of new disciplines and social interests on history-writing today. Lecture and tutorial weekly.

History – Native Studies 400 – Research seminar in aboriginal history

(See Native Studies)

History – Canadian Studies 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 nighttime.

Seminars. *K. Walden*

History – Canadian Studies 406 – Upper Canada, 1784-1867

The foundations of Ontario society; selected studies in cultural, social, political, and intellectual history. Weekly seminar.

History – Canadian Studies 407 – The Canadian-American frontier

The Canadian West from first contact between Europeans and Native People to the end of the settlement period in the early twentieth century. Special emphasis on Indian-White relations, exploration, the fur trade, rebellions, government policies, the ranching and farming frontiers and the influx of new immigrant groups. Comparisons with the American West. Weekly seminars. *J. Jennings*

History 415 – The American South

From Slavery times to the Civil Rights era and the question of today's “Changing South” An exploration of the shaping of the distinctive Identity of “The South,” with attention to the conflicts and dynamics of race, class, and gender, and to the role of stereotype and myth, in the shaping and making of Southernness. Fortnightly, two-hour seminar.

History 418 – The United States and the Vietnam War

Military, cultural, diplomatic, social and political developments related to the Vietnam War era in the United States. 90-minute seminar weekly. *J. Syrett*

History – Canadian Studies – Native Studies 425 – The evolution of the Settlement Commonwealth (See Native Studies)**History 440 – Aspects of modern history**

A combination seminar-reading course.

History 447 – Topics in Latin American history

Topics in Latin American history: dictatorship, state terror, and death in the twentieth century. An exploration through historical and other texts of military rule, dictatorship, and their impact on Latin American societies with emphasis on resistance through the early 1990s. Weekly seminars. *D. Sheinin*

History 450 – The world, 1350–1750

An examination of the patterns of continuity and change in a period of world history marked, among other developments, by the rise of Europe and emergence of capitalism. The focus is the relationship between political power, economy, social structures, culture, values and attitudes in various world societies. Orientation period, individual research projects, and presentations.

History 451 – The enlightenment in Britain, France and America

An advanced study of intellectual development in the seventeenth and eighteenth centuries, reviewing the course of scientific discovery and the new outlook's effect on areas of social and cultural importance.

History – Canadian Studies 475 – History of everyday life: a course in applied history

Research and interpretation of ordinary life in the past, with emphasis on comparative theory, method and approaches, using primarily Canadian themes. Group projects and occasional field trips to museums. There will be a field trip of two or three days during the Fall reading break; field trip fee is \$125. Weekly seminars and/or other meetings. *E. Jones*

History – Canadian Studies 476 – Canadian working-class history

Selected themes exploring the Canadian working-class experience from the late 19th century to the present. Topics include working-class culture and institutions, family life, the changing sexual and racial divisions of labour, politics and reform and the emergence of the trade union movement. Two hour seminar weekly.

History – Canadian Studies 477 – Studies in Canadian social policy

(See Canadian Studies)

History 490 – Reading course

Individual courses designed to provide opportunities for more intensive study of particular topics in areas of history offered by the department. Open to undergraduates in the fourth quarter of the Honours program in History or by special permission. Prior consultation with relevant tutors is essential. Regular consultation during the year.

History 4901 – Reading course: World Wars I & II, or German history

Students will meet the instructor every third week for an hour, to present and discuss research papers on topics concerning World War I, World War II or modern Germany. Year essay follows from class papers. *S. Robson*

History 4902 – Reading course: The Holocaust

Reading seminar on the perpetrators and the victims of the Nazi Final Solution. Topics to be covered include European/German antisemitism, Hitler and the Final Solution, Nazi euthanasia, the death camps, the ghettos, Jewish resistance, and post war representations of the Holocaust in film, art and literature. *C. Kay*

History 495 – Special topic

The department occasionally offers one or two special topics courses. For details of offerings, consult the department and the Supplement to the Calendar.

History 4951 – Special topic: Education and childhood before 1600

Conceptualization and experience of childhood and youth and the evolution of education from the Roman Empire, through the Middle Ages, Renaissance, and Reformation, to 1600. Focus will be primarily on Western Europe and special attention will be paid to the impact of factors such as gender, social class, and vocation. *F. Harris Stoertz*

Other courses offered periodically:

History – Canadian Studies – Politics 301 – Canadian political culture 1864 to present

History – Anthropology 345 – History of slavery

History 350 – Studies in the history of France 1750 – 1914

History 360 – The Crusades 1095 – 1291

History 4904 – Rebellions in Colonial Africa

History – Women's Studies 4905 – Reading course: Women and culture in the Middle Ages

INTERNATIONAL STUDIES

Telephone (705) 748-1300

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Fax: (705) 748-1626

Web: www.trentu.ca/tip

Director of the Trent International Program

D.R. Morrison, M.A. (SASKATCHEWAN), D.PHIL. (SUSSEX)

Courses in global and international studies are offered by several departments and programs at Trent, including Anthropology, Comparative Development Studies, Cultural Studies, Economics, English Literature, Environmental & Resource Science/Studies, Geography, History, Modern Languages and Literatures, Native Studies, Philosophy, Political Studies, Sociology, and Women's Studies.

Special Concentration Program in International Studies

While students interested in global studies are encouraged to pursue majors or joint majors in these fields, a Special Concentration Program in International Studies is also available as an Honours degree combining internationally-oriented studies in three or more disciplines.

Students who are considering the Special Concentration are strongly encouraged to study a language other than English, at least to the intermediate level, and to include among their courses: *Comparative Development 100* (Human Inequality in Global Perspective), *History 170* (World History) and *Politics 220* (Global Politics).

The Special Concentration Degree (Honours) in International Studies consists of 19 or 20 credits, the number to be determined by the International Studies Advisory Committee, on the basis of the requirements of the disciplines involved. For the 19-credit degree, at least two of the final four credits must be at the 400-level; for the 20-credit degree at least two of the final five credits.

Students should contact the Director of the Trent International Program for information and guidance in selecting courses for the Special Concentration in International Studies. Applications for entry, a list of proposed courses, and a rationale for these choices should be submitted to the Director by April 1 in the first year of studies. Subsequently, the International Studies Advisory Committee reviews applications and, before approving them, ensures that proposed programs are coherent and meet University degree requirements.

Students admitted to the Special Concentration in International Studies are required to spend one year of their undergraduate program in another country.

Emphasis in International Studies

Telephone: (705) 748-1300

E-mail: tip@trentu.ca

Program Co-ordinator: D. R. Morrison

The Emphasis in International Studies is available to students in any Honours or General program who fulfil the following requirements: a year of study abroad and successful completion of six courses in international and global studies, as approved by the International Studies Advisory Committee and including at least two of *Comparative Development 100*, *History 170*, and *Politics 220*.

The transcripts of students graduating with an Honours or General degree, who have successfully completed the requirements of the Emphasis Program, will contain the notation "with an Emphasis in International Studies."

The joint-major Honours programs

- The joint-major Honours option is available for students who wish to specialize in international studies while at the same time pursuing a joint-major Honours degree in another discipline. There are two options available:
 - Globalization: Communities, and Identities
 - International Political Economy

Globalization: Communities and Identities

Telephone: (705) 748-1616

E-mail: ehetlinger@trentu.ca

Program Co-ordinator: A. Heitlinger

The joint-major Honours Program in Globalization, Communities and Identities is intended for students with a particular interest in the human and cultural dimensions of globalization, which they wish to explore while pursuing a joint-major Honours option in another discipline. Encouraging students to combine relevant courses in the social sciences with those in the humanities, the program focuses on debates about globalization and its effects on culture, identity, community, and diaspora. Themes include the impact of globalization on gender, race, ethnicity, and aboriginal rights; postcolonialism; the globalization of popular culture, film, music, and mass media; border cultures and hybrid literatures; world cities and their networks; and human rights in a global perspective.

In addition, an Emphasis in Globalization, Communities and Identities is available to students pursuing a Special Concentration degree in International Studies. The transcripts of students graduating with a Special Concentration degree in International Studies, who have successfully completed the requirements of the Emphasis Program, will contain the notation "with an Emphasis in Globalization: Communities and Identities."

Notes

- 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 co-ordinator.
- Students are strongly encouraged to take courses offered by Modern Languages and Literatures.
- Students are strongly encouraged to take *History 170* and *Geography 103H*.

The joint-major Honours program consists of 19.5 or 20 credits (depending on the joint discipline). At least seven credits chosen from the following:

- *Political Studies 220*, *Cultural Studies – Native Studies 230*, *Anthropology 200*
- one credit from category A and three credits from category B

A

Political Studies 320H, 322H, 323H, 326H, 420H, 425H
Political Studies – Comparative Development 427H, 423H

B

Anthropology 409
Anthropology – Comparative Development 301, 304, 306, 407, 475H
Canadian Studies 300, 4951, 280H, 283H, 345H
Canadian Studies – English 466
Computer Studies
Cultural Studies 345, 435
Cultural Studies – Comparative Development 332
Cultural Studies – Women's Studies 381
English 315
Environmental & Resource Science 316H
Environmental & Resource Studies 330
Environmental & Resource Studies – Comparative Development –
 Political Studies 461H
History 200, 335, 336, 450
Native Studies 430
Native Studies – Comparative Development 305
Sociology 480
Women's Studies – Comparative Development 325

- at least two of the credits in the program at the 400-level

International Political Economy

Telephone: (705) 748-1004

E-mail: ehelleiner@trentu.ca

Program Co-ordinator: E. Helleiner

The joint-major Honours Program in International Political Economy (IPE) is intended for students with a particular interest in the interconnected nature of the study of politics and economics at the international and global levels, which they wish to explore while pursuing a joint-major Honours option in another discipline or program. The globalization of economic life has raised the prominence of the study of IPE in recent years among scholars and students from a wide variety of academic backgrounds such as Economics, Political Studies, Comparative Development Studies, Sociology, Anthropology, Geography, History, Environmental & Resource Science/Studies, Women's Studies, Native Studies, Administrative Studies and Canadian Studies.

In addition, an Emphasis in International Political Economy is available to students pursuing a Special Concentration degree in International Studies. The transcripts of students graduating with a Special Concentration degree in International Studies, who have successfully completed the requirements of the Emphasis Program, will contain the notation "with an Emphasis in International Political Economy."

Notes

- A study abroad experience in the student's third year of study is recommended but not required.
- Courses taken abroad may be counted toward the joint major by special permission of the co-ordinator.

The joint-major Honours program consists of 19.5 or 20 credits (depending on the joint discipline). At least seven credits chosen from the following:

- *Economics 101H, 102H, Comparative Development Studies 100, Political Studies 220*
- one credit from each of A, B, C, and D below

A

Economics 311H, 312H, 362H, 398H
Economics – Comparative Development 231H, 333H
Economics – Environmental & Resource Studies 381H

B

Comparative Development Studies – Canadian Studies – Political Studies 424H
Environmental & Resource Studies – Comparative Development – Political Studies 461H
Environmental & Resource Studies – Political Studies – Canadian Studies 460H
Political Studies 320H, 321H, 322H, 323H, 324H, 325H, 326H, 420H, 425H, 426H
Political Studies – Comparative Development 423H, 427H

C

Anthropology – Comparative Development 301, 407, 304
Comparative Development 200, 422
Comparative Development – Anthropology 221
Environmental & Resource Studies – Comparative Development 360
History – Comparative Development 240, 247
Native Studies – Comparative Development 30
Women's Studies 490
Women's Studies – Comparative Development 325

D

Comparative Development 100
Comparative Development – Canadian Studies – Political Studies 424H
Comparative Development – Political Studies 423H
Economics 101H, 102H, 311H, 312H, 362H, 398H,
Economics – Comparative Development 231H, 333H
Economics – Environmental & Resource Studies 381H
Political Studies 220, 320H, 321H, 322H, 323H, 324H, 325H, 326H, 420H, 425H, 426H
Political Studies – Comparative Development 427H

- at least one of the credits in the program at the 300-level and at least one at the 400-level

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. 12). 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.

Year-abroad programs for students of French, German, and Spanish are located in France, Germany, and Mexico respectively (see Modern Languages and Literatures). Comparative Development Studies offers year-abroad programs in Ecuador and Ghana every year, and Native Studies sponsors a year of study in Thailand. Both the Comparative Development Studies and Native Studies programs combine academic courses with work-placement experience.

Students receive full credit for all courses successfully completed in exchange and year-abroad programs, including courses in community development that involve work placements.

LATIN

See Ancient History and Classics

MATHEMATICS

Telephone: (705) 748-1531

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Professor and Acting Chair of the Department

E.A. Maxwell, M.Sc., Ph.D. (TORONTO)

Professors Emeriti

I.C. Chakravartty, 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)

Professors

D.G. Poole, B.Sc. (ACADIA), M.Sc., Ph.D. (McMASTER) (on sabbatical)

Associate Professors

S. Bilaniuk, B.Sc. (TORONTO), A.M., Ph.D. (DARTMOUTH); J.P. Henniger, M.Sc., Ph.D. (McGILL); B. Zhou, B.S. (SHANGHAI), Ph.D. (SOUTH CAROLINA)

Assistant Professors

K. Abdella, B.Sc. (TRENT), M.Sc. (ALBERTA), Ph.D. (WESTERN ONTARIO)

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

- A standing of at least C- (60%) in a Mathematics course at the 100-level is a prerequisite for all upper level Mathematics courses. For specific prerequisites, see individual course descriptions.
- *Mathematics 206H* is considered equivalent to a 300-level course in order to satisfy the University requirement for at least seven credits beyond the 200-level in the Honours program and at least four in the General program.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Registrar's Office for a minor in Mathematics, if they have met the requirements for the joint-major General degree (see below).
- The department maintains a website with up-to-date information at www.trentu.ca/mathematics

Bachelor of Science program in Mathematics

- *Mathematics 110* is the required introductory course for the B.Sc. in Mathematics.
- A standing of C- (60 %) or higher is required in a course if it is to serve as a prerequisite for another course in the program.
- The following core courses are required of all students in the Mathematics program: *Mathematics 110, 135H, 200, and 235H*.
- Most other courses in Mathematics are divided into three categories. Some courses appear in more than one category, but no course may fulfil more than one category requirement. For specific stream requirements for the major, see below.

A Analysis and Topology	B Algebra, Geometry, and Discreet Mathematics	C Modelling
205H	226H	155H
206H	260	205H
207H	322	207H
208H	326H	208H
306H	330	311H
310H	415H	341
406H	416H	355
407H	426H	411
436H	431H	451H
437H	432H	452H
470	460	

- The following courses do not fulfil a category requirement: *Mathematics 380, 390, 490, and 495*.
- An information meeting concerning upper level courses in Mathematics will be arranged in the Winter session.

The single-major Honours program consists of 20 credits. At least 11 credits in Mathematics, including:

- *Mathematics 110, 135H, 200, and 235H*
- two credits each from two of categories A, B, and C, and 0.5 credit from the remaining category
- 3.5 additional credits
- at least six of the credits in Mathematics beyond the 200-level, including at least two at the 400-level

The joint-major Honours program consists of 19.5 or 20 credits (depending on the joint-discipline). At least 7.5 credits in Mathematics, including:

- *Mathematics 110, 135H, 200, and 235H*
- one credit each from two of categories A, B, and C, and 0.5 credit from the remaining category
- two additional credits
- at least three of the credits in Mathematics beyond the 200-level, including at least one at the 400-level

The single-major General program consists of 15 credits. At least six credits in Mathematics, including:

- *Mathematics 110, 135H, 200, and 235H*
- half-credit each from two of categories A, B, and C
- two additional credits
- at least one of the credits in Mathematics beyond the 200-level

The joint-major General program consists of 15 credits. At least five credits in Mathematics, including:

- *Mathematics 110, 135H, 200, and 235H*
- two additional credits from categories A, B, or C
- at least one of the credits in Mathematics beyond the 200-level

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

Mathematics 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: An OAC mathematics course. Not available to students enrolled in or with credit for *Mathematics 110*. Not for credit towards a major in Mathematics. Fall session: Three hour lecture and one-hour workshop weekly.

Mathematics 110 – 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 13/OAC calculus with at least 60 % or equivalent. Three lectures and one seminar weekly. *Staff*

Mathematics 135H – Linear algebra I: matrix algebra

Systems of linear equations, matrices and vectors, determinants, Euclidean vector spaces, linear transformations, eigenvalues and eigenvectors. Prerequisite: A Grade 13/OAC Mathematics credit with at least 60 %. (Excludes *Mathematics 130*) Fall session: Three hours lecture and one hour workshop weekly. *S. Bilaniuk*

Mathematics – Statistics 150 – A non-calculus-based introduction to probability and statistical methods

Data summary, elementary probability, estimation, hypothesis testing, comparative methods, analysis of variance, regression, nonparametric methods, introduction to elementary applications of statistical computing. This course uses high school mathematics as a foundation and involves the use of computers. Not credited toward Mathematics major requirements, nor available to students enrolled in, or with credit for *Mathematics-Statistics 251H* or *Mathematics 110*. Three lectures weekly, one-hour problems session fortnightly. *E.A. Maxwell and staff*

Mathematics – Statistics 155H – Introduction to probability

Probability, random variables, probability distributions. Not available to students with credit for *Mathematics-Statistics 251H*. Co-requisite: *Mathematics 105H* or *Mathematics 110* taken previously or concurrently. Winter session: Three one-hour lectures and one hour workshop fortnightly. *E.A. Maxwell*

Mathematics 200 – Calculus in several dimensions

Vector geometry, curves, surfaces in three dimensions. Partial differentiation and applications, multiple integrals. Vector Calculus. Prerequisite: *Mathematics 110*. Three lectures and one tutorial weekly.

Mathematics – Physics 205H – Ordinary differential equations

First order equations; qualitative and numerical methods. Second order linear equations. Applications to physical and biological models. Laplace transforms. Power series solutions. Prerequisite: *Mathematics 110*. Corequisite: *Mathematics 200*. Recommended: *Mathematics 130* or *135H*. Fall session: Three lectures and one tutorial weekly. *K. Abdella*

Mathematics 206H – Analysis I: Introduction to analysis

The real number system. Limits. Continuity. Differentiability. Mean-value theorem. Convergence of sequences and series. Uniform convergence. Prerequisite: *Mathematics 110*. Co-requisite: *Mathematics 200*. Fall session: Three hours weekly.

Mathematics 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: *Mathematics 105H*. Offered in the Winter session in alternate years. Three lectures and one tutorial weekly. *K. Abdella*

Mathematics – Physics 208H – Methods of applied mathematics

Differential equations in applied mathematics, including Bessel, Legendre, hypergeometric, Laguerre, hermite, Chebyshev, etc. Series and numerical solutions. Properties of the special functions arising from these equations. Prerequisite: *Mathematics – Physics 205H*. Offered in the Winter session in alternate years. (Not offered this year). *K. Abdella*

Mathematics 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 *Mathematics 105H* or *110* (with OAC Algebra/Geometry recommended), or *135H*. Offered in the Winter session in alternate years but not in 2000–2001. Two lectures and one tutorial weekly.

Mathematics 235H – Linear Algebra II: Vector spaces

Vector spaces, basis and dimension, inner product spaces, orthogonality, linear transformations, diagonalization, determinants, eigenvalues, quadratic forms, Jordan normal form. Winter session: Three hours lecture and one hour tutorial weekly. Prerequisite: *Mathematics 135H*. (Excludes *Mathematics 130*) *S. Bilaniuk*

Mathematics – Computer Science 260 – Discrete structures

Mathematics related to computer science including propositional logic, recursive functions, combinatorics, graphs and networks, Boolean algebras. Applications to languages, analysis of algorithms, optimization problems, coding theory, and circuit design. Prerequisite: *Mathematics 110* or *130* or *135H*; or *Computer Science 102H* together with one Grade 13/OAC credit in Mathematics. OAC Finite Mathematics recommended. Three hours weekly. *B. Zhou*

Mathematics – Science 280 – Mathematics for the contemporary classroom

A course in mathematics and mathematical thinking for prospective school teachers. Number systems and counting, graphs and networks, probability and statistics, measurement and growth, symmetry, computers and mathematics. Three hours weekly. Not available to students enrolled in or with credit for any of *Mathematics 110*, *130* *135H* or *Mathematics – Computer Science 260* or their equivalents. Not for credit towards any major in Mathematics. (Not offered this year.)

Mathematics – Physics 305H – Partial differential equations

An introduction to methods for the solution of partial differential equations. Fourier analysis. Prerequisite: *Mathematics 205H*. Corequisite: *Mathematics 200*. Fall session: Three hours weekly. *K. Abdella*

Mathematics 306H – Complex analysis

Functions of a complex variable, analytic functions, complex integrals, Cauchy integral theorems, Taylor series, Laurent series, residue calculus. Prerequisite: *Mathematics 200*. Winter session: Two lectures and one tutorial weekly.

Mathematics 310H – Topology I: Metric spaces

Limits and continuity. Completeness, compactness, the Heine-Borel theorem. Connectedness. Prerequisite: *Mathematics 206H*. Winter session: Two lectures and one tutorial weekly.

Mathematics – Physics 311H – Advanced classical mechanics (See Physics)**Mathematics – Physics 312H – Classical mechanics** (See Physics)**Mathematics 322 – Number theory and related topics in algebra and analysis**

Prerequisites: *Mathematics 110* and *130* or *235H*. Not offered this year.

Mathematics 326H – Geometry II: Projective and non-Euclidean geometries

Elements of projective and non-Euclidean geometry, including an introduction to axiomatic systems. Prerequisites: *Mathematics 135H* or permission of the instructor. Offered in alternate years in the Winter session. (Not offered this year.)

Mathematics 330 – Algebra III: Groups, rings and fields

An introduction to abstract algebraic structures. Prerequisite: *Mathematics 235H*. Two lectures and one tutorial weekly. *S. Bilaniuk*

Mathematics – Computer Science 341 – Linear and discrete optimization

Introduction to the concepts, techniques and applications of linear programming and discrete optimization. Topics include the simplex method, dynamic programming, duality, game theory, transportation problems, assignment problems, matchings in graphs, network flow theory, and combinatorial optimization with emphasis on integer programming. Prerequisites: *Mathematics 130* or *135H*, and *Mathematics-Computer Science 260*. *B. Zhou*

Mathematics – Statistics 355 – An introduction to statistical analysis

An introduction to statistical analysis including statistical summarization, exploratory data analysis and statistical inference. Topics include: data sets, populations and samples, exploring and describing relationships, sampling, point and interval estimation, likelihood methods, hypothesis testing, inferences for comparisons, contingency tables, linear models, linear regression and correlation and introductory multiple regression, design and analysis of experiments, nonparametric methods. This course assumes a background in probability and calculus and uses introductory linear algebra and involves the use of computers. Prerequisites: *Mathematics 155H*, *Mathematics 110* or *Mathematics 105H*. Strongly recommended: *Mathematics 135H*. Excludes *Mathematics – Statistics 252H*. *E.A. Maxwell*

Mathematics – Science 380 – History of mathematics

A study of the major currents of mathematical thought from ancient to modern times. Prerequisites: *Mathematics 110* and *130*, or *Mathematics 110* and *235H*, or *Mathematics 110* and permission of the instructor. Second-year students wishing to take the course must have permission of the instructor. Three hours weekly. *S. Bilaniuk*

Mathematics 390 – Reading-seminar course

Details may be obtained by consulting the department.

Mathematics 406H – Analysis III: Measure and integration

Riemann and Lebesgue measure, integration. Prerequisite: *Mathematics 206H*.

Mathematics 407H – Analysis IV: Topics in analysis Prerequisite: *Mathematics 206H*.**Mathematics 411 – Introduction to mathematical modelling**

Differential equations, ordinary and partial. Prerequisite: *Mathematics 305H*. *K. Abdella*

Mathematics – Computer Science 415H – Mathematical logic

An introduction to the syntax and semantics of propositional and first-order logics through the Soundness, Completeness and Compactness Theorems. Fall session. Prerequisite: *Mathematics – Computer Science 260* or *Mathematics 330* or permission of the instructor. *S. Bilaniuk*

Mathematics 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. Winter session. Prerequisite: *Computer Science 305H* or *Mathematics 330* or *Mathematics – Computer Science 415H* or permission of the instructor. *S. Bilaniuk*

Mathematics 426H – Geometry III: Topics in geometry

Prerequisite: *Mathematics 225* or *226H* or *326H*.

Mathematics 431H – Algebra IV: Galois theory

Extension fields and Galois groups. Prerequisite: *Mathematics 330*.

Mathematics 432H – Algebra V: Topics in algebra Prerequisite: *Mathematics 330*.**Mathematics 436H – Topology II: General topology** Prerequisite: *Mathematics 310H*.**Mathematics 437H – Topology III: Topics in topology** Prerequisite: *Mathematics 310H*.**Mathematics – Statistics 451H – Sampling theory** Prerequisite: *Mathematics 355***Mathematics – Statistics 452H – Theory of inference** Prerequisite: *Mathematics 355***Mathematics 460 – Combinatorics and graph theory**

Prerequisite: *Mathematics – Computer Science 260*, *Mathematics 330* recommended, or permission of the instructor. *B. Zhou*

Mathematics 470 – Dynamical systems, chaos and fractals

Prerequisites: *Mathematics 206H* and *235H*, or equivalents. Recommended: *Mathematics 306H*.

Mathematics 490 – Reading-seminar course

Details may be obtained by consulting the department.

MODERN LANGUAGES AND LITERATURES

Telephone: (705) 748-1394

E-mail: modernlang@trentu.ca

Associate Professor and Chair of the Department

To be named

Associate Chair of French

To be named

Associate Chair of German

J. C. Fewster, M.A. (MANCHESTER)

Associate Chair of Spanish

G. Aitken, B.A. (TRENT), M.A. (STANFORD)

French Studies Section

Professor Emeritus P. Royle, M.A. (OXFORD), Ph.D. (NATAL)

Associate Professors

A. Germain-Rutherford, MAÎTRISE, D.E.A. (PROVENCE-AIX-MARSEILLE I), DOCTORAT (SORBONNE);
 H. Benbaruk-Lapointe, B.A. (BALDWIN-WALLACE), M.A. (McGILL); J.-P. Lapointe, B.A. (R.M.C.), M.A.
 (McGILL) (on leave 1999-2000); Y. Thomas, B.A. (UQAM), M.A., Ph.D. (MONTRÉAL)

Dedicated to small group teaching, French studies at Trent offers an array of courses on Francophone language, cultures and literatures. 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.
- A standing of C- (60%) or higher is required in any course if it is to serve as a prerequisite for another course in the program.
- Courses at the 400-level are normally limited to students in the fourth year of the Honours French program. However, other students may enroll in 400-level English courses if they have obtained the permission of the chair.

Bachelor of Arts program in French Studies

- An Emphasis in Québec Studies is available to students with three or more Québec credits (*French 245, 325, 383*, or any 400-level course on a Québec subject). The transcripts of students graduating with a degree in French Studies, who have successfully completed the requirements of the Emphasis Program, will contain the notation "with an Emphasis in Québec Studies."
- *French 100, 101H*, and *103H* are not credited towards the major requirements for French Studies.

The single-major Honours program consists of 20 credits. At least 10 credits in French Studies, including:

- *French 110, 215*, and *245*
- one of *French 317, 318, 319*, or *320*
- *French 325* or *383*
- four credits at the 400-level
- one additional credit

The joint-major Honours program consists of 19.5 or 20 credits (depending on the joint-discipline). At least eight credits in French Studies, including:

- *French 110, 215*, and *245*
- one of *French 317, 318, 319*, or *320*
- *French 325* or *383*
- two credits at the 400-level
- one additional credit

The single-major General program consists of 15 credits. At least six credits in French Studies, including:

- *French 110, 215, and 245*
- one of *French 317, 318, 319, or 320*
- *French 325 or 383*
- one additional credit

The joint-major General program consists of 15 credits. At least five credits in French Studies, including:

- *French 110, 215, and 245*
- one of *French 317, 318, 319, or 320*
- *French 325 or 383*
- one additional credit

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 achieve a minimum average of B- (70 %) on all French courses at Trent (or equivalent). Enrolment is limited to 15 students from Trent. Honours candidates are especially encouraged to spend a year at Nantes. For further details, please consult the chair of French Studies.

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

French 100 – Elementary French

An intensive course in oral and written French for students who do not have Ontario OAC French or its equivalent. Four hours weekly. Not credited toward French Major requirements. (May not be taken concurrently with or subsequent to any other French course.)

French 101H – Oral French – Level 1

This course will focus on developing functional oral skills through the integrative use of authentic audiovisual resources and different types of communicative situations. Two seminars, one conversation hour and one lab weekly. Prerequisite: one OAC French or equivalent. Not credited towards French major requirements. (May not be taken concurrently with or following *French 110*). Not offered in 2000 – 2001.

French 103H – French composition – Level 1

This course will explore different types of writing and review grammatical concepts in order to develop skills in composition through writing exercises. Two seminars and one computer-assisted grammar period weekly. Prerequisite: one OAC French or equivalent. Not credited towards French major requirements. (May not be taken concurrently with or following *French 110*). Not offered in 2000 – 2001.

French 110 – Découverte des langues et cultures francophones

Designed to provide an exploration of the diversity of francophone cultures, this course will rely on textual, but as well on extensive audio-visual and electronic support material. Students will be required to use the Web as a learning tool. Two-hour lecture, workshop fortnightly. *A. Germain-Rutherford*

French 201H – Oral French – Level 2

This course will develop: 1) advanced functional oral skills in French; 2) an understanding of socio-cultural aspects of oral French; 3) an awareness of national and regional varieties in spoken French. Three hours weekly. Credited towards French major requirements. Prerequisite: placement interview or a mark of C- 60 % or better in *French 101H* or *French 110*.

French 203H – French composition – Level 2

Exploring the conventions of style and form in written French (reports, argumentative writing, fiction) through writing and rewriting exercises. Complete review of grammar. Two seminars weekly. Credited towards French major requirements. Prerequisite: a placement interview or a mark of C- 60 % or better in *French 103H* or *French 110*.

French 215 – Introduction à la linguistique structurale du français contemporain

Introduction to the fundamental elements of Linguistics. Two hours weekly. This course is required of all students majoring in French. Prerequisite: *French 110*.

French 245 – Civilisations française et québécoise

A survey of the social and cultural histories of France and Québec from the sixteenth century to the present. Two hours weekly. This course is required of all students majoring in French. Prerequisite: *French 110* or equivalent.

French 305 – Traduction

An introduction to the techniques of translation (theory and practice). Two hours weekly. Prerequisite: *French 110* or *French 201H* and *203H* or permission of the instructor.

French 317 – La vie littéraire française au XVIII^e siècle

Baroque and Classicism. Poetry, theatre, novels, correspondence. Two hours weekly. Pre- or co-requisite: *French 245*.

French 318 – La vie littéraire française au 18^e siècle

In the aftermath of the “fêtes galantes” and the splendour of Louis the XV’s court, Voltaire, Diderot, Rousseau, Beaumarchais and Sade were preoccupied with man’s struggles with ideas of responsibility and liberty. This course will examine representations of this struggle from Prévost’s *Manon Lescaut* in the 1730s to Sade’s *Les infortunes de la vertu* closer to the Revolutionary period.

French 319 – La vie littéraire au 19^e siècle

As this course attempts to offer a better grasp of literary life in the 19th century, it will focus on the grotesque, the fantastic and the carnivalesque in literary writings from the Romantic period to the Naturalist project.

French 320 – La vie littéraire française au XX^e siècle

Modern and contemporary trends in literature. Poetry, novels, theatre. Pre- or co-requisite: *French 245*.

French – Canadian Studies 325 – Théâtre et poésie du Québec

A survey of the beginnings and evolution of Québec theatre and poetry, concentrating on modern and contemporary works. Two hours weekly. Pre- or co-requisite: *French 245*.

French 331 – La pensée française (Offered only in Nantes.)**French 351 – La civilisation française** (Offered only in Nantes)**French – Canadian Studies 383 – Le roman québécois**

A survey of the Québec novel, from the “roman de la terre” to the Quiet Revolution and the many facets of contemporary fiction. Two hours weekly. Pre- or co-requisite: *French 245*.

French 401 – Initiation à la recherche littéraire

Supervised research. Single credit course. 8,000 words thesis. Two hours weekly. Candidates must submit a written proposal to the Chair before May 1. (Excludes *French 402*)

French 402D – Recherche littéraire avancée

Supervised research. Double credit course. 15,000 -word thesis. Three hours weekly. Candidates must submit a written proposal to the Chair before May 1. (Excludes *French 401*)

French 405 – Didactique du français langue seconde

This course is intended primarily for future teachers of French as a second language. Areas covered will include: the parameters of didactology, language and culture, oral techniques in the classroom, teaching grammar, self-directed learning and evaluation. Two hours weekly. Prerequisite: *French 215* or permission of the instructor.

French 420 – La critique littéraire : Marcel Proust et la critique littéraire

H. Benbaruk

French 450 – Le roman féminin en France au 20^e siècle

Simone de Beauvoir’s essay *Le Deuxième Sexe* had called upon women to speak out. This course will examine the specificity of women’s writings in 20th century France as it focuses on the questions of feminine identity, femininity, feminitude and feminism. The course will also attempt to show how French women novelists of the past sixty years have mapped out the territories of the feminine imaginary. *H. Benbaruk*

French 460 – Tendances littéraires et culturelles modernes: problématiques culturelles dans un cours de langue seconde

This course targets future teachers interested in the conceptual issues and practices of teaching culture in a second language course. What are the various meanings of culture? What are the parameters to be considered in the cultural training of second language teachers? What kind of cultural materials can we use? How do we determine the teaching/learning strategies of a second language culture? These and other related questions will be critically explored in this course. *A. Germain-Rutherford*

French 495 – Special topic : Identité et altérité dans le roman québécois

J.P. Lapointe, Staff

German Studies Section**Professors Emeriti**

G. Baumgaertel, M.A. (BROWN), DR. PHIL. (TÜBINGEN); D.D. Stewart, M.A., Ph.D. (TORONTO)

Associate Professors

J.C. Fewster, M.A. (MANCHESTER); A.A. Krüger, STAATSEXAMEN (MÜNCHEN) (*on leave Winter session 2001*)

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 Administrative Studies (world of business and finance), Economics, Political Studies, Philosophy, Cultural Studies, Social and Natural Sciences. To complement and enhance our German Studies at Trent, we offer the only Canadian Year Abroad Program in Germany: Canadian students can study with a Canadian professor who will facilitate their integration and their studies at the University of Freiburg.

Note

- Students who have passed a placement test may enrol in *German 205*.

Bachelor of Arts program in German Studies

- A joint-major Honours degree is an option for students who successfully complete an approved course of study in the Year Abroad Program in Freiburg. For further details consult the associate chair of German Studies.
- one credit in courses taught in English (*German 232H, 233H, 240H*) may be credited towards the major requirements for German Studies.
- *German 100* is not credited towards the major requirements for German Studies.

The single-major General program consists of 15 credits. At least six credits in German Studies, including:

- *German 105, 205H, 310H, 316H, and 360H*
- three additional credits

The joint-major General program consists of at least five credits in German, including:

- *German 105 and 205H*
- one credit from *German 310H, 316H, or 360H*
- 2.5 additional credits

Year Abroad Program

Students may apply to spend their second or third year of studies abroad, for which they will receive Trent credits. The Year Abroad program is offered at the University of Freiburg, Germany. In order to be eligible students must achieve a minimum average of B- (70 %) on all courses at Trent (or equivalents) and a minimum standing of B- (70 %) in *German 105* (or equivalent). Enrolment is limited to seven students from Trent. For further details, please consult the chair of German Studies (german@trentu.ca).

In 2000-2001, the Resident Director of the Year Abroad Program in Freiburg will offer 2.5 credits at the 200-level and 300-level. Among them will be intermediate and advanced courses in language, German cultural studies, and literature.

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

German 100

Designed for students with little or no knowledge of German. This course provides an introduction to spoken and written German with an integrated computer-assisted language learning program, language laboratory as well as an introduction to present-day Germany. Four lecture/seminars weekly. Not open to students with OAC German or equivalent standing. Not credited toward a major in German. *A.A. Krüger and staff*

German 105

Intermediate German language course with comprehensive grammar review, intensive language practice and computer-assisted language learning program. Introduction to German literature and culture in the Winter session. Prerequisite: *German 100*, Grade 12 German, OAC German or equivalent. Four lecture-seminars, one laboratory weekly.

J.C. Fewster

German 205H – Advanced language practice I

Written and oral practice. Prerequisite: *German 105* or permission of the department.

Three lectures/seminars weekly. *J. C. Fewster*

German 206H – German literature and thought from Nietzsche to Brecht

Modern writers and events. Prerequisite: *German 205H* or permission of the department.

One lecture, two seminars weekly. *Staff*

German 231 – German civilization

(See *German 232H* and *233H*, offered in German only in Freiburg)

German 232H – German civilization I

Taught in English. A survey of 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. Prerequisites: None. May be counted towards a major in German (see Special Provisos). Two lectures, one seminar weekly. *A.A. Krüger*

German 233H – German civilization II

Taught in English. A survey of 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. Prerequisites: *German 232H* desirable. May be counted towards a major in German (see Special Provisos). Two lectures, one seminar weekly.

German 240H – Freud's Vienna from the Habsburgs to Hitler

Taught in English. An examination of a society in decline and its important contributions in its music, painting, architecture and intellectual life to the shaping of the modern mind, with the use of films, slides and music tapes. Open to all students. May be counted towards a major in German (see Special Provisos). Two lectures, one seminar weekly.

J.C. Fewster

German 305H – Advanced language practice II

Special aspects of German grammar. Written and oral exercises. Prerequisite: *German 205H* or permission of department. Three lectures/seminars weekly. *J. Fewster*

German 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. Prerequisite: *German 205* or permission. Two lectures, one seminar weekly. *A.A. Krüger*

German 316H – Studies in German Romanticism in the European context

Prerequisite: *German 205H* or permission. One lecture, two seminars weekly.

German 330H – The German Novelle and Erzählung of the 19th and 20th centuries

Prerequisite: *German 205* or permission of department. One lecture, two seminars weekly.

German 341H – East German literature

Prerequisite: *German 205H* or permission of department. One lecture, two seminars weekly. *Staff*

German – Women's Studies 351H – Women and socialism: the East German context

Taught in English this course will explore sociological, political and literary discourses pertaining to women in former East Germany from the country's birth in 1949 to the collapse of the Berlin Wall in 1989. Prerequisite: None; German majors only, require *German 205H*. Lecture, seminar weekly. German majors enrol in a separate seminar section taught in German.

German 360H – Studies in German literature and cultural developments, 1780-1832

With special attention to Goethe, Schiller and Kleist. Prerequisite: *German 205H* or permission of the department. Two lectures, one seminar weekly. *Staff*

German 390 – Special topics**German 391H – Special topics****German 392H – Special topics****Hispanic Studies Section**

Telephone: (705) 748-1394

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Fax: (705) 748-1630

Web: www.trentu.ca/spanish

Associate Professor and Chair of the Section

G.D. Aitken, B.A. (TRENT), M.A. (STANFORD)

Professors Emeriti

R.M. Garrido, LIC.DER., DR.DER., DR. FILOLOGIA (SEVILLA), M.A. (TORONTO); J.P. González-Martin, LIC.DER. (OVIEDO), DR.DER. (ZARAGOZA); D.L. Smith, M.A., D.PHIL. (OXFORD)

Professor

T.A. Noriega, LIC. EN FILOLOGIA (COLOMBIA), M.A., Ph.D. (ALBERTA)

Associate Professor

F.B. García-Sánchez, B.A. (HAVANA), M.A., Ph.D. (LAVAL)

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 Mexico, designed primarily for second-year students. It is an excellent opportunity to become proficient in Spanish and to experience the rich cultural heritage of Mexico.

Notes

- *Spanish 100* or *200* is a prerequisite for *Spanish 211* and *250*. However, students with sufficient knowledge of Spanish may be admitted directly into *Spanish 211* and *250*, or they may take civilization and literature courses exclusively. A placement interview is required.
- A minimum standing of B- (70%) in *Spanish 100* is a prerequisite for *Spanish 250*.
- *Spanish 211* must be taken in combination with *Spanish 250*.
- *Spanish 322H* and *323H* are offered only as part of the Year Abroad Program in Mexico

The Bachelor of Arts in Hispanic Studies

- Majors 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 majoring in Hispanic Studies take courses in at least one other modern language.

The single-major Honours program consists of 20 credits. At least 10 credits in Hispanic Studies, including:

- *Spanish 100* or *200*
- *Spanish 211*, *250*, *300*, and *310*
- five additional credits

The joint-major Honours program consists of 19.5 or 20 credits (depending on the joint-discipline). At least seven credits in Hispanic Studies, including:

- *Spanish 100* or *200*

- *Spanish 211, 250, 300, and 310*
- two additional credits

The single-major General program consists of 15 credits. At least six credits in Hispanic Studies, including:

- *Spanish 100 or 200*
- *Spanish 211, 250, 300, and 310*
- one additional credit

The joint-major General program consists of 15 credits. At least five credits in Hispanic Studies, including:

- *Spanish 100 or 200*
- *Spanish 211, 250, 300, and 310*

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 is offered at the Universidad del Valle de México, at its campuses in Querétaro and San Miguel de Allende. In order to be eligible students must achieve a minimum average of B- (70 %) in all courses at Trent (or equivalents) and a minimum standing of B- (70 %) in Spanish 100 or 200 (or equivalent). For further details, please consult the chair of Hispanic Studies, Gary Aitken (gaitken@trentu.ca) and visit our website: www.trentu.ca/spanish/year-abroad_program.htm.

In 2000-2001 the following courses will be offered in the Year Abroad Program:

- **Language:** *Spanish Immersion* (an initial, 2-week intensive course not for credit), *Spanish 250*, and *300*
- **Civilization:** *Spanish 310*
- **Literature:** *Spanish 211, 322H, and 323H*
- **Special topics:** (for students who have successfully completed *Spanish 211* and *250*) *Spanish 4951* and *4952*

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

Spanish 100 – Beginners' course in Spanish

An introduction to the Spanish language, with an emphasis on oral Spanish, pronunciation, reading and writing as a preparation for *Spanish 250* (required course for Spanish majors) and *Spanish 200*. Three seminars, one computer program hour, and one laboratory hour weekly. *G. Aitken and staff*

Spanish 200 – Continuing Spanish

A language course with comprehensive review and practice, designed for students with advanced high-school credits, or *Spanish 100* or other previous exposure to the language. An alternative course in preparation for *Spanish 250*. Two seminars, one conversation hour and one laboratory hour weekly. *G. Aitken and staff*

Spanish 211 – Introduction to Hispanic literature and culture

One lecture and one seminar weekly with fortnightly cultural workshops conducted in English and Spanish. Students enrolled in this course are also normally required to register in *Spanish 250*. Prerequisite: *Spanish 100*, or *200*, or permission of the instructor. *T.A. Noriega and F.B. García-Sánchez*

Spanish 250 – Intermediate Spanish

A comprehensive and more intensive course designed to help students attain significantly better control of their skills in listening, speaking, reading and writing Spanish. Two seminars, one conversation hour and one laboratory hour weekly. Prerequisite: *Spanish 100* (with 70 % or better), *Spanish 200* or permission of the instructor. *F.B. García-Sánchez and staff*

Spanish 300 – Advanced Spanish and translation

A study of selected Spanish grammatical features related to composition and oral practice. Emphasis on the development of skills applied to translation from Spanish to English and English to Spanish. Four hours weekly. One seminar/workshop, one conversation hour and one laboratory hour. Prerequisite: *Spanish 250* or permission of the instructor. *T.A. Noriega and staff*

Spanish 310 – Spanish and Spanish-American civilization

A study of civilization in the Hispanic world: history, political and economical issues, social development, artistic and cultural manifestations including architecture, literature, painting, film, music and folklore. Conducted in English and Spanish. One lecture, one seminar weekly. Prerequisite: *Spanish 250*, or permission of the instructor. *F.B. García-Sánchez and T. A. Noriega*

Spanish 311H – Spanish contemporary prose

Prose from the generation of 1898 to our times. Lecture and seminar weekly. Prerequisite: *Spanish 211*. *F.B. García-Sánchez*

Spanish 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. Lecture and seminar weekly. Prerequisite: *Spanish 211*. *F.B. García-Sánchez*

Spanish 322H – Spanish-American poetry (offered only in Mexico)

A survey of Spanish-American poetry with special emphasis on the contemporary period. Lecture and seminar weekly. Prerequisite: *Spanish 211*. *T. A. Noriega*

Spanish 323H – Spanish-American prose (offered only in Mexico)

A survey of Spanish-American prose with special emphasis on the contemporary period. Lecture and seminar weekly. Prerequisite: *Spanish 211*. *T. A. Noriega*

Spanish 326 – The contemporary Latin-American novel: adventure and commitment

Conducted in English, this course involves a detailed socio-literary study of selected works by prominent Latin-American writers. May be credited toward a Spanish major. Lecture and seminar weekly. (Support course for Comparative Development Studies) *T. A. Noriega*

Spanish 330 – Spanish literature of the Golden Age

An introduction to the literature and thought of the Renaissance and Baroque periods based on selected authors and topics. Lecture and seminar weekly. Prerequisite: *Spanish 211*. *F.B. García-Sánchez*

Spanish 401 – Honours thesis

Honours seminar leading to the completion of an undergraduate thesis, with emphasis on research methods and literary criticism. Theme to be chosen in consultation with the instructor. *Staff*

Spanish 415H – History of the Spanish language

An historical survey of the formation and development of the Spanish language from pre-literary times to the present day. Lecture and seminar weekly. *G. Aitken*

Spanish 416H – Medieval Spanish literature

Studies of the Spanish literature from *El Cid* (twelfth century) to *La Celestina* (end of the fifteenth century). Lecture and seminar weekly. *Staff*

Spanish 420 – Contemporary Spanish-American novel

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. Lecture and seminar weekly. Prerequisite: Permission of the instructor. *T. A. Noriega*

Spanish 495 – Special topic in Hispanic Studies

Prerequisite: Permission of the instructor. *Staff*

Spanish 4951 – Special topic in Hispanic Studies

Prerequisite: Permission of the instructor. *Staff*

Spanish 4952 – Special topic in Hispanic studies

Prerequisite: Permission of the instructor. *Staff*

Spanish 496H, 497H – Special topics in Hispanic studies

Prerequisite: Permission of the instructor. *Staff*

NATIVE MANAGEMENT AND ECONOMIC DEVELOPMENT PROGRAM

Telephone: (705) 748-1466

E-mail: nativestudies@trentu.ca

Fax: (705) 748-1416

Web: www.trentu.ca/nativestudies

The Native Management and Economic Development Program provides an interdisciplinary and integrated approach to the development of management, community, and economic development knowledge and skills appropriate for working within an aboriginal environment. The program is offered by the Native Studies department and the Administrative Studies program, thus blending a study of native culture with management and economic development skills. It is available as a Diploma or as an Emphasis in the Administrative Studies or Native Studies Programs.

Notes

- The following options are available in Native Management and Economic Development: a Diploma Program in Native Management and Economic Development, an Emphasis in the Bachelor of Arts General or Honours degree in Native Studies, an Emphasis in a Bachelor of Business Administration Honours degree.
- For information on individual courses see calendar entries for Native Studies and Administrative Studies.

Diploma in Native Management and Economic Development

- The Diploma is a 2-year program open to students who have the equivalent of Ontario Grade 12 or qualify as mature students. Students of aboriginal ancestry are encouraged to enrol.
- Students are required to successfully complete two non-credit courses: *Communications 91* in the Summer pre-session and *Communications 92H*. For course descriptions see the Native Studies section of the calendar (p. 212)
- 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 in Native Studies. Credits earned in the Diploma program are transferable to the B.A. degree.
- Application to the program should be made to the Office of the Registrar.
- Inquiries should be directed to the academic programs co-ordinator, Native Studies department.

Courses

- *Communications 92H*
- *Native Studies 100, 150H, 151H, Administrative Studies 201H, Administration – Native Studies 190, and 272*
- *Native Studies 200, 290, 300, or 305*
- one additional credit in Administrative Studies or Native Studies
- one additional credit at the 100-level (recommended courses: *Administration 100H and 101H, Anthropology 100, Comparative Development Studies 100, Philosophy 105, Politics 100*)

Emphasis in Native Management and Economic Development

The Emphasis in Native Management and Economic Development is available to students in the General or Honours program in Native Studies, or in the Bachelor of Administrative Studies program. The transcripts of students graduating with a General or Honours degree in Native Studies, or with an Honours degree in Administrative Studies, who have successfully completed the requirements of the Emphasis Program, will contain the notation “with an Emphasis in Native Management and Economic Development.”

Bachelor of Arts Program in Native Studies

(with an Emphasis in Native Management and Economic Development)

- For the purposes of the degree, *Administrative Studies – Native Studies 190* and *272* are credited as Administrative courses, not Native Studies courses.
- *Economics 101H* are *102H* strongly recommended for the Honours and General degree
- *Administration 400* is strongly recommended for the Honours degree.

The single-major Honours program consists of 19 credits. At least nine credits in Native Studies. The program must include:

- *Native Studies 100, 150H, 151H, 200, 381H, and 383H*
- *Native Studies 225, 280, or 310*
- three credits in Native Studies at the 400-level
- one additional credit in Native Studies
- *Administrative Studies 105 or 100H and 101H, 201H, 202H, 250, 350, Administrative Studies – Native Studies 190 and 272*

The joint-major Honours program consists of 19 or 19.5 credits (depending on the joint-discipline). At least seven credits in Native Studies. The program must include:

- *Native Studies 100, 150H, 151H, 200, 381H, and 383H*
- *Native Studies 225, 280, or 310*
- two credits in Native Studies at the 400-level
- *Administrative Studies 105 or 100H and 101H, 201H, 202H, 250, 350, Administrative Studies – Native Studies 190 and 272*

The single-major General program consists of 15 credits. At least six credits in Native Studies. The program must include:

- *Native Studies 100, 150H, 151H, 200, 381H, and 383H*
- *Native Studies 225, 280, or 310*
- one additional credit in Native Studies
- *Administrative Studies 105 or 100H and 101H, 201H, 202H, 250, 350, Administrative Studies – Native Studies 190 and 272*

The joint-major General program consists of 15 credits. At least six credits in Native Studies. The program must include:

- *Native Studies 100, 150H, 151H, 200, 381H, and 383H*
- *Native Studies 225, 280, or 310*
- one additional credit in Native Studies
- *Administrative Studies 105 or 100H and 101H, 201H, 202H, 250, 350, Administrative Studies – Native Studies 190 and 272*

The joint-major General program consists of 15 credits. At least five credits in Native Studies. The program must include:

- *Native Studies 100, 150H, 151H, 200, 381H, and 383H*
- *Native Studies 225, 280, or 310*
- *Administrative Studies 105 or 100H and 101H, 201H, 202H, 250, 350, Administrative Studies – Native Studies 190 and 272*

Bachelor of Business Administration program

(with an Emphasis in Native Management and Economic Development)

- Include the following courses in the program described in the Administrative Studies section of the calendar: *Native Studies 100, 150H, 151H, Administrative Studies – Native Studies 190 and 272.*

NATIVE STUDIES

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Fax: (705) 748-1416

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Web: www.trentu.ca/nativestudies

Chair of the Department

To be named

Professors Emeriti

M. J. Castellano, (MOHAWK), B.A. (QUEEN'S), M.S.W. (TORONTO)

Professors

D.N. McCaskill, B.A. (WINNIPEG), M.A. (CARLETON), Ph.D. (YORK); J.S. Milloy, B.A. (ST. PATRICK'S),

M.A. (CARLETON), D.PHIL. (OXFORD) (*on sabbatical 2000-2001*)

Associate Professor

P. Kulchyski, B.A. (WINNIPEG), M.A., Ph.D. (YORK); D. Newhouse, (ONONDAGA), B.Sc., M.B.A. (WESTERN ONTARIO); S.I. Williams, (ANISHNAABE KWE) B.A. (TRENT), NLIP Dip. (LAKEHEAD), M.A. (YORK), Mide I (3 FIRES) (*on sabbatical 2000-2001*)

Assistant Professors

M. Dockstator, (ONEIDA) B.Sc. (WATERLOO), L.L.B. (YORK), D.Jur (YORK), E. Manitowabi, (ANISHINABE KWE), MIDE.III (3-FIRES) (*on leave 1999-2000*)

Adjunct Faculty

S. Brascoupe, (ALGONKIAN/MOHAWK), M.A. (NEW YORK STATE, BUFFALO); L. Davis, B.A. (QUEEN'S), M.A. (SUSSEX), M.A. (ALBERTA), Ph.D. (TORONTO); J. Davison, B.A. (WESTERN), M.A. (TRENT); W. Fournier; D. Lazore, (MOHAWK), B.Ed. (MONTREAL); D. McNab, B.A. (WATERLOO), M.A. (McMASTER), Ph.D. (LANCASTER); D. Williams, (MISSISSAUGA/ OJIBWAY), B.A. (TRENT)

Cultural Advisor

P. Bourgeois, (ANISHINABE), MIDE.II (3-FIRES), B.A. (TRENT)

Notes

- For the Diploma Program in Native Studies see below.
- For the Diploma Program in Native Management and Economic Development see the Native Management and Economic Development section of the calendar
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Registrar's Office for a minor in Native Studies, if they have met the requirements for the joint-major General degree (see below).

Bachelor of Arts program in Native Studies

- Only two credits in *Native Studies 280, 380, 225, and 310* may be counted towards the credits in Native Studies required for a major.
- For the Year Abroad program in Thailand see below.
- For the Emphasis in Native Management and Economic Development see the Native Management and Economic Development section of the calendar.

The single-major Honours program consists of 19 credits. At least nine credits in Native Studies, including:

- *Native Studies 100, 200, 381H, and 383H*
- *Native Studies 225, 280, or 310*
- three credits at the 400-level
- two additional credits

The joint-major Honours program consists of 19 or 19.5 credits (depending on the joint-discipline). At least seven credits in Native Studies, including:

- *Native Studies 100, 200, 381H, and 383H*
- *Native Studies 225, 280, or 310*
- two credits at the 400-level
- one additional credit

The single-major General program consists of 15 credits. At least six credits in Native Studies, including:

- *Native Studies 100 and 200*
- *Native Studies 225, 280, or 310*
- three additional credits

The joint-major General program consists of 15 credits. At least five credits in Native Studies, including:

- *Native Studies 100* and *200*
- *Native Studies 225, 280, or 310*
- two additional credits

The Year Abroad program

The Native Studies Thailand Year Abroad Program is offered in Chiang Mai, Thailand, in alternate years (not in 2000-2001). The program is designed to afford students the opportunity to study the culture and development of indigenous peoples of South East Asia and to apply their learning in a practical situation. It is an integrated five credit program for students in the third or fourth year of the Native Studies program. To be eligible, students must achieve at least a B- (70 %) average in their academic program the year prior to going to Thailand. The program consists of:

- *Native Studies 180* and *311*
- *Native Studies – Comparative Development Studies 305* or *482*
- *Native Studies 386* and *390* or *Native Studies 402D* (practicum field placement)

Diploma Program in Native Studies

The Diploma Program in Native Studies is a 2-year program open to students who have the equivalent of Grade 12, or who qualify as mature students. Students of aboriginal ancestry are encouraged to enrol. The Diploma is awarded upon successful completion of the program. With it is included a Trent University transcript identifying all courses undertaken and grades received.

Notes

- Upon successful completion of the diploma program, students may apply for admission to the B.A. program. Credits earned in the program are transferable to the B.A. degree.
- Application to the program should be made to the Office of the Registrar.
- Inquiries should be directed to the academic programs co-ordinator, Native Studies department.

Courses

Over a 2-year period, students are required to complete seven credits, of which four must be in Native Studies courses. Some 200-level Native Studies courses are available in the first year of the program with the permission of the instructor

Students must enrol in two non-credit courses, *Communications 91*, an intensive 3-week Summer course preceding their first year in the program, and *Communications 92H* in their first year.

- *Communications 91* provides skill development in studying, writing, reading, speaking and listening. The focus is on aboriginal content. Successful completion leads to admission to the Diploma Program in the Fall.
- *Communications 92H* provides specific research skills for students in Native Studies and in Native Management and Economic Development. Class instruction, seminars and individual tutoring focus on content relevant to the undergraduate course work of participants.

Summer prior to Year 1

- *Communications 91* (Pre-session)

Year 1

- *Communications 92H*
- *Native Studies 100*
- two additional credits, one of which may be a 100-level credit in a discipline other than Native Studies.

Year 2

- 4 credits in Native Studies at the 200- or 300-level, exclusive of *Native Studies 390*. one credit at the 100-level from a discipline other than Native Studies may be substituted for any of these.

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

Native Studies 100 – Introduction to Native Studies

The course examines the contemporary situation of Aboriginal People in Canada in the context of their cultural traditions and the historical interactions between aboriginal and non-aboriginal societies. Seminar and two lectures weekly. *Mark Dockstator and staff*

Native Studies 150H – Introduction to aboriginal community development

An overview and examination of the concepts of “community” and “development” in an aboriginal context. The course will examine traditional and contemporary aboriginal communities and the utilization of human and natural resources to improve life in the community. Lecture and seminar weekly.

Native Studies 151H – Introduction to aboriginal community-based economic development

An overview of the formal and informal, traditional and modern, economies of aboriginal communities. Factors affecting the location and viability of economic activities, as well as the roles played by women and elders in their communities, will be examined. Lecture and seminar weekly.

Native Studies 180 – Introduction to Thai language

This is a conversational course designed for the students to have some ability to participate in Thai culture. This is an intense course designed to give some language skills and experience culture through language.

Native Studies – Administration 190 – Introduction to management and decision-making in contemporary aboriginal organizations (See Administrative Studies.)

Native Studies 200 – Politics and aboriginal communities

The course will focus both on the traditional political culture of Aboriginal Peoples and on the political structures of colonialism (Indian Acts, Treaties, etc.) viewed from legal and historical perspectives. Contemporary analysis will treat aboriginal self-government including models of development, cultural and ideological foundations, government policy and implementation strategies. Lecture and seminar weekly. *P. Kulchyski*

Native Studies 210 – The Algonkian identity

A study of aboriginal values, culture and tradition. The course will concentrate on the Algonkian-Anishinabe speaking peoples which include the Ojibway, Cree, Saulteaux, Odawa and Potowatomie in the exploration of topics such as religion, spirituality, humour, men and women's roles and problems of contemporary life. Lecture and seminar weekly.

Native Studies 211 – Aboriginal identity development

This course examines the processes of aboriginal identity development in various life stages. Emphasis is placed on the self in historical and contemporary time periods, and the problems of self identity in a post-modern world. aboriginal religion and spiritual philosophies and world view is examined. Lecture and seminar weekly.

Native Studies 220 – Iroquois culture and traditions

A study of the political, economic, kinship and religious institutions of traditional Iroquois society including prehistoric background, establishment of the Six Nations Confederacy, the longhouse religion, and contemporary situation. Lecture and tutorial weekly.

Native Studies 225 – Oral Mohawk

An introduction to Mohawk designed for students with little or no knowledge of the language. This is a conversational course, emphasizing the use and understanding of Mohawk through the learning of the basic vocabulary and sentence patterns in class and in language laboratory. Three hours weekly.

Native Studies 230 – An introduction to the key concepts and issues in postcolonial theory

The course focuses on theories of hybrid identity, resistance and agency within a contemporary aboriginal context specifically as they apply to debates on essentialism, identity politics and cultural appropriation.

Native Studies – Anthropology – Canadian Studies 253

– aboriginal art of North America (See Anthropology)

Native Studies – Canadian Studies – History 255 – History of the Indians of Canada

Emphasis will be placed on aboriginal involvement in the fur trade and imperial politics of the eighteenth century, the development of European “civilizing” policies, and the growth and ideology of the modern aboriginal political movement. Seminar and lecture weekly.

Native Studies – Canadian Studies – History 270 – History and politics of the Métis

An examination of the historical development of the Métis nation and survey of selected issues facing the Métis today.

Native Studies – Administration 272 – Organizational behaviour in contemporary aboriginal organizations (See Administrative Studies)**Native Studies 280 – An introduction to Ojibway designed for students with little or no knowledge of the language**

This is a conversational course, emphasizing the use and understanding of Ojibway through the learning of the basic vocabulary and sentence patterns in class and in the language laboratory. Three classroom hours weekly plus lab work. *S.I. Williams*

Native Studies – Canadian Studies 285 – Aboriginal people and the North

A study of political, economic, social and cultural factors which affect the Aboriginal Peoples of Northern Canada. The course will closely examine each of the Northern comprehensive land claims, as well as the development of the new Nunavut territory. Lecture and seminar weekly.

Native Studies 290 – Aboriginal economic development

Provides an overview of the economic development process with specific reference to aboriginal communities. The course examines types of economic activities, where they locate and why. Planning for community economic development as well as business feasibility studies will be covered. Prerequisite: *Economics 101H and 102H or Native Studies 150H and 151H*.

Native Studies 300 – Aboriginal governance

This course examines and analyses the development of aboriginal forms of governance in Canada with a particular emphasis upon cultural, philosophical and political foundations. Prerequisites: *Native Studies 100 and 200*. *D. Newhouse*

Native Studies – Comparative Development 305 – Aboriginal community development

A study of various approaches to community development in aboriginal and Third World communities. The course will examine current initiatives in human resource, political and economic development, and critical issues relating to local control, values, gender, government policies, and roles in social change processes. Prerequisite: *NS100 and/or CDS100*. Lecture and seminar weekly.

Native Studies 310 – Culture and community

A study of cultural continuity, change and revitalization in aboriginal communities in Canada. The dynamic nature of cultural adaptation and the significance of tribal language, spirituality and social responsibilities will be emphasized. Prerequisite: *Native Studies 100* and one other Native Studies course. Lecture and seminar weekly. *E. Manitowabi*

Native Studies 311 – Hill Tribes and Thai culture

A study of cultural continuity, change and revitalization in Hill Tribes and Thai communities in Thailand. The dynamic nature of cultural adaptation and the significance of tribal language and social responsibilities will be emphasized.

Native Studies 320 – Urbanization and the Aboriginal Peoples

An analysis of migration, adjustment and integration of Aboriginal People into urban areas, examining various assimilation and acculturation models as well as cultural interaction between aboriginal and white society in rural aboriginal communities. Prerequisite: *Native Studies 100*. Lecture and seminar weekly

Native Studies 330 – Education and Aboriginal Peoples

The course will examine issues pertaining to the development of an appropriate educational system for Aboriginal People including aboriginal control of aboriginal education, learning theories, aboriginal culture, values and identity, teaching and learning styles, pedagogy and curriculum planning. Prerequisite: *Native Studies 100*. Lecture and seminar weekly.

Native Studies 340 – Aboriginal law

This course will review the legal history of aboriginal rights and aboriginal title, focusing on significant court decisions that have interpreted key legal documents. Special topics to be discussed will include traditional justice and the administration of justice.

Prerequisites: *Native Studies 100* and *200*. Lecture and seminar weekly. *M. Dockstator*

Native Studies – Women's Studies 350 – First Nations women

This course examines the experience of First Nations women in Canada today with respect to cultural expression in the arts, education, work, family, health, politics and the law. Contemporary issues facing First Nations women will be examined. Prerequisite:

Native Studies 100. *E. Manitowabi*

Native Studies – Canadian Studies – English 360 – Native peoples in literature

(See English)

Native Studies 380 – Intermediate oral Ojibway

A general course in conversation and pronunciation using language laboratory and classroom participation. Three hours weekly. Enrolment may be limited. Prerequisite:

Native Studies 280 or permission of instructor. *S.I. Williams*

Native Studies 381H – Theory of community-based research

A practical introduction to research methods in the social sciences, including a critique of those methods in the context of Native studies. The ideological base of participatory and action research is examined along with case studies exemplifying alternative methodologies. Prerequisites: *Native Studies 100* and *200*. *Native Studies 383H* recommended.

Lecture and seminar weekly. *D. McCaskill*

Native Studies 383H – Community-based oral history methods

Emphasis is upon the cultural and strategic approaches which enhance oral history methods in aboriginal communities. Topics include research design, community rapport, administration, community-based data collection and analysis. A small-scale field project will be developed. Prerequisites: *Native Studies 100* and *200*. *Native Studies 381H* recommended. Weekly lecture and seminar.

Native Studies 383H – Community-based oral history methods

Emphasis is upon the cultural and strategic approaches which enhance oral history methods in aboriginal communities. Topics include research design, community rapport, administration, community-based data collection and analysis. A small-scale field project will be developed. Prerequisites: *Native Studies 100* and *200*. *Native Studies 381H* recommended. Weekly lecture and seminar.

Native Studies 386 – Practicum field placements

Provides an opportunity for students to apply their learning in a field setting. The nature of the placements will vary depending on student interests and the availability of agencies willing to take students. The placements are designed to allow students to learn about development and culture in a dialectical way; that is, through a process of experience (action) and reflection on that experience. The learning from the field placements will be both formal and informal, and at many levels (personal, interpersonal and community).

Native Studies – History 400 – Research seminar in aboriginal history

The seminar will focus on ethnohistorical methods and aboriginal historiography.

Prerequisites: *Native Studies 381H* and *383H* or permission of the instructor.

Native Studies 402 – 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. Students are to arrange all details with the Department Chair before the end of the preceding academic year.

Prerequisites: *Native Studies 381H* and *383H* and B+ average in Native Studies courses.

Native Studies 410 – Seminar on indigenous knowledge

Will explore contemporary indigenous expressions and interpretations of traditional thought and beliefs. Modes of organizing, validating and communicating knowledge form central themes. Prerequisites: *Native Studies 220*, or *Native Studies 310* or permission of the instructor.

Native Studies 420 – Native Studies Honours collegium

This seminar concentrates upon a reading of texts considered basic to the definition of contemporary aboriginal realities. It will explore issues surrounding history, identity, development, epistemology, ontology, using a multi-disciplinary model of inquiry and analysis. Prerequisites: *Native Studies 381H* and *383H* or permission of the instructor.

D. Newhouse

Native Studies – Canadian Studies – History 425 – The evolution of the settlement commonwealth

A comparative study of Canada, Australia, and New Zealand, with special emphasis on the relationship between the 'settlers' and the aboriginal peoples.

Native Studies 430 – Critical theory and native studies

A seminar on the relevance of contemporary western social and political thought to aboriginal issues. The course will apply a broad range of theoretical approaches to develop understandings and insights of aboriginal and western societies and the specific character of the interactions between them. Prerequisite: *Native Studies 200* or *310* or *Native Studies 381H* and *383H* or permission of the instructor. *P. Kulchyski*

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

(See Anthropology)

Native Studies 480 – Advanced Ojibwa/Odawa language

This fourth year course will be a continuation of the study of the Ojibwa language. This course will study four different styles of Ojibway verbs. Pre-requisites: *Native Studies 280* and *380* or permission of instructor.

Native Studies 481 – Selected topics

Aboriginal People of the Arctic. This course will examine the political, social, economic, and cultural development of the Indigenous people of Siberia, Alaska, Canada and Greenland. Prerequisite: *Native Studies 200* or *285* or *Native Studies 381H* and *383H* or permission of the instructor.

Native Studies – Comparative Development 482 – Aboriginal responses to cultural interaction

Focus will be on social and psychological processes involved when cultures meet, examining acculturation and conflict models, culture and personality, interaction perspectives and ethnic identity studies. Prerequisite: *Native Studies 100* or *310* or *NS 381H* and *383H*.

Native Studies 490 – Reading course

Students may select an area of study under the direction of an adviser. Details are to be arranged through the Department Chair before the end of the preceding academic year. Prerequisites: *Native Studies 381H* and *383H* and B+ average in Native Studies courses.

PHILOSOPHY

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Associate Professor and Chair of the Department

F. C. McKinnon, B.A. (McGILL), B.PHIL., D.PHIL. (OXFORD)

Professors Emeriti

J.W. Burbidge, M.A. (YALE), B.D., Ph.D. (TORONTO), FRSC; R.E. Carter, A.B. (TUFTS), M.DIV. (HARVARD), M.A., Ph.D. (TORONTO); D. Gallop, M.A. (OXFORD); J.I. MacAdam, B.A. (NEW BRUNSWICK), M.A. (QUEEN'S), Ph.D. (LONDON); M.L. Rubinoff, B.A. (QUEEN'S), M.A., Ph.D. (TORONTO)

Professors

C.V. Boundas, M.A., Ph.D. (PURDUE); C.W. Tindale, B.A. (WILFRID LAURIER), M.A., Ph.D. (WATERLOO)

Associate Professors

B.J. Hodgson, M.A. (TORONTO), Ph.D. (WESTERN ONTARIO); R.M. Neumann, B.A. (COLUMBIA), M.A., Ph.D. (TORONTO);

Assistant Professor

D. Morris, 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 *Philosophy 101* or *105* before enrolling in upper level Philosophy courses.
- First year students who wish to enrol in 200-level courses must consult with the chair of the department.
- 200-level courses in Philosophy are considered equivalent to 300-level courses in order to satisfy the University requirement for at least seven credits beyond the 200-level in the Honours program and at least four in the General program.
- For the Emphasis in Applied Ethics, see below.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Registrar's Office 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

- *Philosophy 101* or *105* are strongly recommended for all students in the Philosophy program.
- *Philosophy 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** consists of 19 credits. At least nine credits in Philosophy, including:

- *Philosophy 210* and *310*
- seven additional credits, including *Philosophy 105* or *240H*, at least one credit at the 300-level, and at least two credits at the 400-level.

The joint-major Honours program consists of 19 or 19.5 credits (depending on the joint-discipline). At least seven credits in Philosophy, including:

- *Philosophy 210* and *310*
- five additional credits, including at least one credit at the 300-level, and at least one credit at the 400-level

The single-major General program consists of 15 credits. At least six credits in Philosophy, including:

- *Philosophy 210* and *310*
- four additional credits, including at least one at the 300-level

The joint-major General program consists of 15 credits. At least five credits in Philosophy, including:

- *Philosophy 210* or *310*
- four additional credits
- at least one of the credits in Philosophy at the 300-level

Emphasis in Applied Ethics

Telephone: (705) 748-1814

Email: philosophy@trentu.ca

Fax: (705) 748-1721

Web: www.trentu.ca/philosophy

Program Co-ordinator:

Michael Neumann, B.A. (COLUMBIA), M.A., Ph.D. (TORONTO), 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, 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 Program, will contain the notation "with an Emphasis in Applied Ethics."

Students earn the Emphasis in Applied Ethics by completing satisfactorily the following five courses: *Philosophy 105*, *230*, *330*, *Philosophy – Computer Studies 337*, *Administrative Studies 420* or *Environmental & Resource Studies 330*

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

***Philosophy 101* – Introduction to philosophical inquiry**

An introduction to philosophy through a study of fundamental problems, such as the nature of moral right and wrong, the freedom of the will, the relation between mind and matter, and the existence of God, as presented in contemporary writings and classical texts by, for example, Plato, Descartes, Kant and Nietzsche. Excludes *Philosophy 102H* and *103H*. Two hours weekly.

***Philosophy 102H* – Introduction to philosophical inquiry**

A half-year introduction to philosophy through a study of some fundamental philosophical problems, as presented in contemporary writings and classical texts. Excludes *Philosophy 101*. Two hours weekly. *Staff*

***Philosophy 103H* – Introduction to philosophical inquiry**

A half-year introduction to philosophy through a study of some fundamental philosophical problems, as presented in contemporary writings and classical texts. Excludes *Philosophy 101*. Two hours weekly. *Staff*

***Philosophy 105* – Practical reasoning**

The study of the uses of statements and arguments in reasoning, as they occur in a variety of contexts. Emphasis will be placed on developing skills in recognizing, constructing and critically evaluating arguments. Lecture and tutorial weekly.

Philosophy 210 – Ancient philosophy

The development of philosophical thought from the Pre-Socratic to Neo-Platonist and Christian thinkers of late antiquity. Special emphasis will be placed upon selected works of Plato and Aristotle. Two hours weekly.

Philosophy 211 – The philosophical development of the modern world

The course provides crucial background to current theoretical discussions in the Humanities and Social Sciences, by studying central concepts and development in the western philosophical tradition. Against their historical background, the course studies selections from several major philosophers, including Plato, Aristotle, Augustine, Machiavelli, Descartes, Rousseau, Hume, Kant, Hegel, Nietzsche, Marx and Freud. The course will attend to the relation between philosophical and historical developments and explain how philosophical developments set the way for the “modern” and “post-modern” responses to it. Two hours weekly.

Philosophy 214 – Introduction to existential philosophy

Themes will include consciousness as a source of meaning and interpretation, individuality, intersubjectivity and community, freedom, choice and responsibility, difference and repetition, and nihilism and creation. Texts will be selected from the writings of Nietzsche, Kierkegaard, Camus, and Sartre, Marcel, de Beauvoir, Merleau-Ponty, Heidegger, Ricoeur and Barthes. Two hours weekly.

Philosophy 230 – Moral issues

An application of basic principles of moral philosophy to some ethical problems of contemporary society. Topics might include: abortion and euthanasia, animal rights and species preservation, the justice of our economic system, world hunger and population control, censorship and pornography, women's rights and minority rights, ethical issues arising out of technological innovations. Two hours weekly.

Philosophy – Women's Studies 231 – Feminist philosophy

An inquiry into the notions of sex and gender. Explores the “difference” of woman as it has been taken up by feminist philosophers in both France and North America, including the exchange between feminism and psychoanalysis. Topics include the encounter of self and other; love; language and desire; and the construction of the female body in (post) modernity's discourse of subjection and the subject. Texts will be selected from the writings of de Beauvoir, Irigaray, Kristeva, Butler, Hooks and others. Two hours weekly. (*Offered in alternate years.*)

Philosophy 232 – Philosophy of law, justice and rights

A study of philosophical theories of law, justice and rights. Attention will be given to relevant writings of Hart, Rawls and Dworkin, and to the importance of the Canadian Charter of Rights and Freedoms. Two hours weekly. (*Offered in alternate years.*)

Philosophy – Computer Studies 240H – Symbolic logic

An introductory study of formal logical systems, together with their use in the analysis of various types of arguments. Two hours weekly. (Excludes *Philosophy – Computer Studies 240.*)

Philosophy 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. Two hours weekly. Excludes *Philosophy 275.* (*Offered in 2000 – 2001 and in alternate years.*)

Philosophy – Psychology 277 – Philosophy of mind

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. Two hours weekly. (Excludes *Philosophy – Psychology 377H.*) (*Offered in alternate years, but not in 2000 – 2001.*)

Philosophy 278H – Philosophy of science

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. Not open to first-year students. Two hours weekly.

Philosophy 279H – Philosophy of art

The philosophy of art has traditionally concerned 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. Two hours weekly. Excludes *Philosophy 279*. (Offered in 2000 – 2001 and in alternate years.)

Philosophy 282 – East Asian philosophy: China and Japan

A study of major Chinese and Japanese philosophers, including Confucius, Lao Tzu/Chuang Tzu, Dogen, Nishida and Suzuki. A focus of the course will be the relation between human nature and nature. The relation between knowledge and experience as a means to understanding the primacy of the aesthetic in Japanese culture. Two hours weekly. (Not offered in 2000 – 2001)

Philosophy 310 – Early modern philosophy

A study of the important philosophies of the seventeenth and eighteenth centuries, including those of Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume and Kant. Two hours weekly. (Excludes *Philosophy 212*)

Philosophy 315 – Descriptive and existential phenomenology

Themes and texts will be selected from the writings of Husserl, Heidegger, Merleau-Ponty, Ricoeur and others. Two hours weekly. Prerequisite: *Philosophy 214* or permission of instructor. (Offered in alternate years but not in 2000 – 2001)

Philosophy 316 – Hermeneutics and deconstruction

Themes and texts will be selected from the writings of Heidegger, Gadamer, Habermas, Ricoeur, Derrida, Deleuze, Foucault, Lyotard, Lacan and Nancy. Two hours weekly. Prerequisite: *Philosophy 214* or permission of instructor. (Offered in 2000 – 2001 and in alternate years.)

Philosophy 330 – Moral and political philosophy

A study of some of the following: the relation between morality and rationality, the notion of freedom in morals and politics, the limits of utilitarianism, and the limits to rights. Weekly two-hour seminar. Two hours weekly.

Philosophy – Computer Studies 337 – Cybermorality

A course which enables students to develop their own positions about the most important social and moral problems raised by computers. These include such concerns as whether computers can become moral persons with moral rights, the fragmentation of society into computer 'haves' and 'have-nots,' Internet censorship, and software piracy. No formal background is required, but students must be prepared to tackle the formal presentation of certain topics. Two hours weekly. (Offered in alternate years but not in 2000 – 2001.)

Philosophy – Computer Studies 341H – Logics and logical theories

A look at selected topics in logic, including some of: modal and 3-valued logics, the foundations of arithmetic, formal semantics, the theory of rational choice, completeness, soundness, and truth. Prerequisite: *Philosophy – Computer Studies 240H* or permission of instructor. Two hours weekly. (Offered in 2000 – 2001 and in alternate years.)

Philosophy 378H – Philosophy of language

A study of the nature and structures of language, and an investigation into the relations between languages and thought and between language and the world. Prerequisite: *Philosophy 105* or *240H* or permission of instructor. Two hours weekly. (Offered in 2000 – 2001 and in alternate years.)

Philosophy 390 – Reading course

Students will be encouraged to pursue a special interest, largely through independent study, for full-course credit. Details must be arranged in consultation with the staff in Philosophy by April 30 of the preceding academic year.

Philosophy 421H – Advanced topics in metaphysics and epistemology

A seminar devoted to in-depth investigation of selected central metaphysical and epistemological themes. Two hours weekly.

Philosophy 431H – Advanced topics in value theory

A study of central themes in value theory, to be chosen among issues in moral theory, aesthetic theory, and political theory. Two hours weekly.

Philosophy 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: *Philosophy 240H* or permission of instructor. Two hours weekly.

Philosophy 451H – Kant

A seminar devoted to a close reading of some of Kant's major works. Prerequisite: *Philosophy 310* or permission of instructor. Two hours weekly.

Philosophy 452H – Hegel

A seminar devoted to a close reading of some of Hegel's major works. Prerequisite: *Philosophy 310* or permission of instructor. Excludes *Philosophy 412*. Two hours weekly.

Philosophy 453H – 19th century philosophy

A study of some central themes and important philosophers of the 19th century. Prerequisite: *Philosophy 310* or permission of instructor. Excludes *Philosophy 412*. Two hours weekly.

Philosophy 454H – 20th century philosophy

A study of some central themes and important philosophers of the 20th century. Prerequisite: *Philosophy 310* or permission of instructor. Two hours weekly.

Philosophy 461H – Major texts

A close study of one or more central texts by one or more important philosophers; texts and philosophers to change annually. Two hours weekly.

Philosophy 462H – Major texts II

A close study of one or more central texts by one or more important philosophers; texts and philosophers to change annually. Prerequisite *Philosophy 461H* or permission of instructor. Two hours weekly.

Philosophy 471H – Advanced topics in philosophy of mind

An in-depth investigation into some of the central issues in philosophy of mind, eg., consciousness, embodiment, reasons for actions, the emotions, free will, zombies, thinking machines, conscious animals. Prerequisite *Philosophy 277* or permission of instructor. Two hours weekly.

Philosophy 490 – Reading course

Students will be encouraged to pursue a special interest, through independent study, for full-course credit. Details to be arranged in consultation with the staff in Philosophy by April 30 of the preceding academic year.

Philosophy 495H – Special topics

A seminar devoted to a Special Topic of philosophical interest; topic to change annually. Two hours weekly.

Philosophy 496H – Special topics II

A seminar devoted to a Special Topic of philosophical interest; topic to change annually. Prerequisite *Philosophy 495H* or permission of instructor. Two hours weekly.

PHYSICS

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Professors Emeriti

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Professors

P.C. Dawson, Ph.D (VICTORIA); W.F.J. Evans, M.A., Ph.D. D.SC. (SASKATCHEWAN), F.R.S.C.; R.G. Johnson, M.Sc.(QUEEN'S), Ph.D. (LIVERPOOL); A.J. Slavin, M.Sc. (TORONTO), Ph.D. (CAMBRIDGE)

Associate Professor

J.W. Earnshaw, B.A.SC. (TORONTO), Ph.D. (CAMBRIDGE)

Senior Demonstrator

J. Breukelaar, B.Sc. (YORK), M.Sc. (TRENT)

Demonstrator

D. Marshall, B.Sc. (WATERLOO)

Physics is the most fundamental of the natural sciences. It includes the study of electricity and magnetism, gravitation, electronics, the motion of projectiles and rotating bodies, heat, light and sound, and the interactions between the smallest particles in nature: electrons, protons, neutrons and quarks – the building blocks of all matter. Because of their fundamental nature, the concepts of physics underlie much of modern astronomy, chemistry, biology, medicine, and engineering. Discoveries in physics continue to improve space travel, speed up global electronic communications, lead to new products such as ferroelectric computer memories, and invent and improve medical diagnostic techniques such as magnetic resonance imaging (MRI).

Notes

- In order to fulfill the University requirement that a program must include at least three 100-level credits leading to majors in different disciplines, *Physics 100* and *150* are considered to be in different disciplines.
- Physics courses may be taken in any year of a student's program, provided that all prerequisites have been successfully completed.
- *Physics 470H* and *Physics 430* are mutually exclusive.
- For the programs in Chemical Physics, in Science, and in Computing and Physics see the relevant sections of the calendar.

Bachelor of Science program in Physics

- *Physics 355H* and *311H* may be counted towards the 400-level credit requirements in the Honours program
- *Mathematics 135H* is strongly recommended for the students in the Honours program.
- Students with an A average in Mathematics and Physics, and with the permission of the department, students may substitute *Physics 460* (the project course) for *Physics 461H*. This does not affect the number of credits in Physics required at the 400-level or for the degree as a whole.

The single-major Honours program consists of 20 credits. At least 10 credits in Physics.

The program must include:

- *Physics 100, 202H, 203H, 270H, 311H, 312H, 321, 380H, 400, 420, 461H, Physics – Mathematics 205H* and *305H*
- one additional half credit in Physics at the 400-level
- one additional credit in Physics
- *Mathematics 110* and *200*

The joint-major Honours program consists of 19.5 or 20 credits (depending on the joint-discipline) At least seven credits in Physics. The program must include:

- *Physics 100, 202H, 203H, 270H, 312H, 321, 400, Physics – Mathematics 205H and 305H*
- one additional credit in Physics at the 400-level
- *Mathematics 110 and 200*

The single-major General program consists of 15 credits. At least six credits in Physics. The program must include:

- *Physics 100, 202H, 203H, 270H, 312H, 321, 380H, and Physics – Mathematics 205H*
- one additional credit in Physics
- *Mathematics 110 and 200*

The joint-major General program consists of 15 credits. At least five credits in Physics. The program must include:

- *Physics 100, 202H, 203H, 270H, 312H, 321, 380H, and Physics – Mathematics 205H*
- *Mathematics 110 and 200*

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

Physics 100 – Elementary physics

Particle dynamics, translational and rotational motion, electricity, magnetism, optics, special relativity. Prerequisite: OAC Calculus or Algebra, or equivalent, or permission of the department. OAC credits in Physics and Calculus are recommended, and concurrent enrolment in first-year calculus is strongly recommended. *Mathematics 110* is required for upper-level Physics courses. Three class meetings and three-hour laboratory weekly, tutorial fortnightly.

Physics 150 – Introductory astronomy: a non-mathematical treatment

The solar system, sun, and stars. Stellar evolution, supernovae, neutron stars, black holes. Galaxies, quasars, introductory cosmology. The Big Bang. No prerequisite. Not to be counted toward a major in Physics. Two lectures weekly plus periodic workshops for astronomical observations.

Physics 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.

Prerequisites: *Physics 100* and *Mathematics 110*. Pre- or co-requisite: *Physics-Mathematics 205H*. Three lectures and three-hour laboratory weekly, tutorial fortnightly.

Physics 203H – Quantum physics

Quantum mechanics of one-electron atoms, magnetic dipole moments and spin, transitions and selection rules, identical particles, excited states of atoms, molecules, nuclear and particle physics. Prerequisites: *Physics 202H* and *Physics-Mathematics 205H*. Co-requisite: *Mathematics 200*. Three lectures and tutorial weekly, three-hour laboratory weekly.

Physics – Mathematics 205H – First order equations; qualitative and numerical methods (See Mathematics, and under Notes and provisos)

Physics – Science 209 – Introduction to physical science

A survey course with a laboratory component intended for concurrent education students and others who are not majoring in a physical science or mathematics. 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 concurrently registered in *Physics 100*. Interested students should contact the chair of the Physics department for information.

Physics 250 – Special topics in astronomy and cosmology: a course for nonscientists

Subjects to be discussed include Olbers' Paradox, the Fermi-Hart Paradox, the Cosmic Anthropic Principle, and the fate of the Universe. Prerequisite: *Physics 150* or permission. Not to be counted toward a major in Physics. Two lectures weekly, periodic workshops.

Physics 270H – Thermal physics

First and second laws of thermodynamics and applications, heat transfer, blackbody radiation, kinetic theory of gases, statistical thermodynamics. Prerequisite: *Physics 100*. Corequisite: *Mathematics 200*. Three lectures weekly, tutorial fortnightly.

Physics – Mathematics 305H – Partial differential equations

(See Mathematics, and under Notes)

Physics – Mathematics 311H – 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. Prerequisites: *Mathematics 200* and *Physics-Mathematics 312H*. Three class meetings weekly.

Physics – Mathematics 312H – 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. Prerequisites: *Mathematics 110* and *Physics 100* or permission of the instructor. Corequisite: *Mathematics 200*. Three lectures and tutorial weekly.

Physics – Computer Science 321 – Electricity and magnetism

Electrostatics, magnetostatics, electric and magnetic properties of matter, Maxwell's equations, electromagnetic wave propagation. Prerequisites: *Physics 100* and *Mathematics 200*. Three class meetings, laboratory or problems session weekly.

Physics – Computer Science 325H – 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. Prerequisite: *Physics 100* and OAC Calculus or equivalent. Three class meetings weekly, three-hour laboratory weekly.

Physics 355H – Relativity

Special relativity-kinematics: events and spacetime, Minkowski geometry, four vectors, tensors in spacetime. Dynamics: conservation of momentum and energy, covariant equations of motion. General relativity: geometry and space, the curvature tensor, equivalence principle and curved spacetime, principle of general relativity, metric form of spacetime, Einstein's theory of gravitation. Prerequisites: *Physics 202H* and *Mathematics 200*. Three lectures and tutorial weekly.

Physics 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. Prerequisites: *Physics 100*, *Mathematics 200* and *Physics – Mathematics 205H*. Three lectures weekly and tutorial fortnightly, three-hour laboratory weekly.

Physics 400 – Quantum mechanics

Review of elementary quantum mechanics. States and operators in Hilbert space, Dirac notation, interpretative postulates, representations, symmetry transformations, angular momentum theory, spherically symmetric potentials, approximation methods, scattering theory, identical particles. Selected special topics as time permits. Prerequisites: *Physics 203H*, *Physics – Mathematics 305H*, *Physics – Computer Science 321*. Three lectures and tutorial weekly.

Physics 420 – Electromagnetic theory

Maxwell's equations, the interactions of electromagnetic fields with matter, the relativistic formulation of electromagnetism and its applications. Prerequisites: *Physics-Computer Science 321*, *Physics-Mathematics 305H*.

Physics 430 – Solid state physics and thermal physics

Review of essential thermodynamics; ensembles: microcanonical, canonical, grand canonical; derivation of occupation numbers, equilibrium considerations, phase space, Liouville's theorem, Boltzmann transport equation. Lattice vibrations and thermal properties of solids, band theory, electron transport, crystallography, crystal binding, semiconductors, magnetism. Prerequisites: *Physics 270H*, *Physics 203H*, *Physics-Mathematics 205H*, *Mathematics 200*. Pre- or co-requisites: *Physics – Computer Science 321*, *Physics – Mathematics 305H*. Excludes *Physics 470a*.

Physics 440 – Nuclear and particle physics

Nuclear properties, forces, models and reactions; accelerators, detectors; high energy physics including elementary particles and their composition and interactions; quarks and gluons; electroweak unification; grand unified theories. May be taken in the third or fourth quarter. Prerequisite: *Physics 203H*, Pre- or co-requisites: *Physics-Mathematics 305H*, *Physics-Computer Science 321*.

Physics 460 – 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 80 % in physics and mathematics will normally be required.

Physics 461c – 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.

Physics 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. Applications from the thermal properties of solids. Prerequisites: *Physics 270H*, *Physics 203H*, *Physics-Mathematics 205H*, *Mathematics 200*. Pre- or co-requisites: *Physics 321*, *Physics-Mathematics 305H*. Excludes *Physics 430*.

Physics 490 – Reading course

A course designed to allow advanced students in Physics to pursue independent study under the direction of departmental faculty. This course will be available only in exceptional circumstances, and with the approval of the Physics department.

POLITICAL STUDIES

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Professor and Chair of the Department

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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).

Professors

D.R. Morrison, M.A. (SASKATCHEWAN), D. PHIL. (SUSSEX); R.C. Paehlke, B.A. (LEHIGH), M.A. (NEW SCHOOL FOR SOCIAL RESEARCH), Ph.D. (BRITISH COLUMBIA).

Associate Professors

J.D. Driscoll, M.A., Ph.D. (QUEEN'S); E. Helleiner, B.A. (TORONTO), M.A., Ph.D. (LONDON); M. Neufeld, B.A. (WATERLOO), M.A., Ph.D. (CARLETON); A. Pickel, M.A. (GUELPH), DIPL. POL. (BERLIN), Ph.D. (YORK).

Assistant Professor

E. Stavro, M.A., Ph.D. (TORONTO)

Conjunct Professor

S.G.D. Smith, B.A. (McGILL), M.A., B.LITT (OXFORD), D.LITT. (TRENT).

The department provides for general study and for concentration in one or more fields — global politics, Canadian politics, public policy, and political theory. Political theory is important for every field because all political analysis is theoretically informed. Students of politics are thus strongly advised to plan their studies in a way that will advance their theoretical development. The requirements for Honours (see below) indicate the minimum a student needs to develop theoretical understanding necessary for work at an advanced undergraduate level.

Notes

- *Politics 100* or the permission of the instructor is a prerequisite for all upper level courses in Political Studies.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Registrar's Office for a minor in Political Studies, if they have met the requirements for the joint-major General degree (see below).
- Further information on the faculty members, course offerings, and general orientation of the department may be obtained at the departmental website, <http://www.trentu.ca/politics>.

Bachelor of Arts program in Political Studies

- *Politics 100* must normally be taken as one of the first three credits in Political Studies. This requirement may be waived if a student achieves at least 70 % in each of the first two Politics credits earned.
- Successful completion of five credits in Political Studies, including one credit in political theory, or the permission of the instructor, is a prerequisite for all 400-level courses.
- The Honours program in Political Studies must include two credits in political theory. Alternatively, the requirement for a second political theory credit may be fulfilled by two credits at the 400-level for which a prior credit in political theory is recommended.
- Students interested in the possibility of registering for a reading course (*Politics 390* or *490*), internship (*Politics 490*), or thesis (*Politics 402D*) should check with the department regarding prerequisites and application procedures.
- Students may make special arrangements with the instructor of a 300-level course to assume an extra workload in the course and to receive a credit at the 400-level level (*Politics 480*). Such arrangements are subject to the permission of the instructor, and notification must be made to the department. Students are allowed only one such credit in their program.

The single-major Honours program consists of 19 credits. At least nine credits in Political Studies, including:

- *Politics 100*
- two credits in political theory (*Politics 233, 333, 334, 335, 336, 430, 432, 435*, or other courses designated by the department)
- six additional credits
- at least two of the credits in Political Studies at the 300-level and at least three at the 400-level

The joint-major Honours program consists of 19 or 19.5 credits (depending on the joint-discipline). At least seven credits in Political Studies, including:

- *Politics 100*
- two credits in political theory (*Politics 233, 333, 334, 335, 336, 430, 432, 433, 435*, or other courses designated by the department)
- four additional credits
- at least two of the credits in Political Studies at the 300-level and at least two at the 400-level

The single-major General program consists of 15 credits. At least six credits in Political Studies, including:

- *Politics 100*
- two credits at the 300-level
- three additional credits

The joint-major General program consists of 15 credits. At least five credits in Political Studies, including:

- *Politics 100*
- two credits at the 300-level
- two additional credits

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

Politics 100 – Governance and globalization. Politics in the 21st century

Introduction to the study of politics in the age of globalization, using films, literature and political writings. Focused on current public controversies, social change, Canadian and global politics, and how our own personal lives fit into the larger picture. Two one-hour lectures weekly, tutorial fortnightly. (Support course for Environmental & Resource Studies.)

Politics – Canadian Studies 201 – Canadian politics

An introduction to political institutions and practices, with emphasis on the constitution, parliament and cabinet, political parties and elections, the Charter and the courts and Canadian political economy.

Politics 210 – American politics

A general introduction to American representative institutions (parties, elections, interest groups and the media) and governmental institutions (the Presidency, Congress, and Courts). How the interests of Americans are defined and responded to in this system of pluralist democracy are analysed. Proposals for reforming the system are considered. Weekly lectures and tutorials.

Politics 220 – Global politics

The global system and its evolution with a survey of different approaches to analysis. Issues include economic globalization, democratization, international organization, security, civil society, human rights, social movements, and nationalism. (Support course for Comparative Development Studies.) *E. Helleiner, A. Pickel*

Politics 233 – 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. *J. Driscoll*

Politics – Canadian Studies – Environmental & Resource Studies 267H – Public policy

An introduction to the process of public policy-making and implementation with case studies and a comparison of differing modes of analysis.

Politics – Canadian Studies 268H – Policy and democracy: ethics, law and politics

Values and norms as they relate to public policy in the ethical, legal, and political contexts of democracy. Attention to issues of policy evaluation.

Politics – Canadian Studies – History 301

– Canadian political culture, 1864 to the present (See History)

Politics – Canadian Studies – Sociology 305 – Politics and society in Quebec

A survey and critical review of competing models of social, economic and political change in Quebec, with special emphasis on national consciousness and problems of identity in late modernity. Prerequisite: at least one social science course or permission of the Instructor. Lecture and tutorial weekly.

Politics – Canadian Studies 309 – Law and constitutional issues

An introduction to the basic institutions and practices of constitutional politics in Canada (including the courts, parliaments, federal-provincial relations, domestic and international treaties and international organizations) and a survey of current issues.

Prerequisite: either *Canadian Studies 200* or *Politics 201* or *Politics 267H* or permission of the instructor. Strongly recommended: *Politics 201*.

Politics – Canadian Studies – Environmental & Resource Studies 310 – Public policy and the Canadian environment (See Environmental & Resource Studies.)

Politics 320H – Ordering world politics I: U.S. foreign policy in the 20th century

This course aims to provide a critical perspective on the efforts to construct and regulate the global order represented by U.S. foreign policy. A theoretically informed review of the historical record is used to achieve an understanding of current trends. Recommended:

Politics 220. Exclusion: *Politics-Canadian Studies 320*. *M. Neufeld*

Politics – Canadian Studies 321H – Ordering world politics II: Canadian foreign policy in the 20th century

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. (By special arrangement may be taken for 400 series credit without 480 enrolment.)

Recommended: *Politics 220*. Exclusion: *Politics-Canadian Studies 320*. *M. Neufeld*

Politics 322H – Global political economy

An examination of the central debates and issues in the field of global political economy within the context of the historical evolution of the world system and the globalization of economic life in the contemporary era. Recommended: *Politics 220*. Excludes: *Politics 322*. (Support course for Comparative Development Studies.) By special arrangement, may be taken for 400-level credit without 480 enrolment. *E. Helleiner*

Politics 323H – Nationalism and political order in global perspective

Why nationalism has survived and revived under globalization; how ethnicity is politicized and national identities constructed; nationalism's positive and negative forms and its relationship with democratic values. The course incorporates philosophical, historical, sociological, anthropological and economic approaches to explain and assess varieties of nationalism. Recommended: *Politics 220*. Excludes *PO323*. *A. Pickel*

Politics 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. (By special arrangement may be taken for 400-series credit without 480 enrolment.) Recommended: *Politics 320H*, *322H*, or *323H*.

A. Pickel

Politics 325H – Post-communist transformation

Studies the political and economic transitions of formerly Communist countries in comparative and global perspective. Includes Central and Eastern Europe, the former Soviet Union, China, Vietnam and Cuba. (By special arrangement may be taken for 400-series credit without 480 enrolment.) Recommended: *Politics 320H*, *322H*, or *323H*.

A. Pickel

Politics 326H – Politics of North American economic integration

The North American Free Trade Agreement has created an increasingly integrated economic region involving Canada, the United States and Mexico. This course examines the politics and public policy debates associated with North American regional integration in the context of the changing global political economy and the historical evolution of the region. (By special arrangement may be taken for 400-series credit without 480 enrolment.) Recommended: *Politics 220*. (Support course for Comparative Development Studies.) *E. Helleiner*

Politics 333 – Political theory

Theorizing political change. Through a careful examination of texts we will look at differing conceptions of truth, ideology, human agency, the state and the possibilities of political change. Debates within Marxism, anarchism, postmodernism, feminism, and radical democracy will be explored. Prerequisite: one of *Politics 233*, *305*, *334*, *335*, *336* or permission of the instructor.

Politics 334 – Liberal democratic theory

An examination of the development of liberal democratic theory in the nineteenth and twentieth centuries with attention to the relationship between citizens and experts in public life.

Politics 335 – 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. *E. Stavro*

Politics – Women's Studies 336 – The body politic/the body in politics

Liberal political discourse assumes the polity emerges from the consent of rational autonomous actors. This will be challenged by focusing on debates concerning power as sovereignty, dominant class interest, governance; efforts to include the woman's body in politics through care, contract, desire and citizenship will be explored.

Politics 341 – Party organization and elections

A comparative study of political parties and the electoral process with particular attention given to the impact of new electoral technologies and changes in voting behavior. Examples are drawn from Canada, the United States, Britain and other western democracies. Prerequisite: a 200-level Politics course or permission of the instructor. Weekly lectures and fortnightly tutorials.

Politics – Canadian Studies 362 – Public policy and administration in Canada

An integrated study of the policy-making process, linking ideas, ideologies and interests with political and administrative structures and processes, with the aim of establishing what is distinctive about the process in Canada. Students will have the opportunity to carry out a research project in a policy area of their choice. Recommended: *Politics 267H-268H*.

Politics – Canadian Studies 366H – Canadian political economy

This course focuses on relationships between the state and the economy in Canada while also surveying the Canadian tradition of studies in political economy.

Politics 367 – Women, law and politics

An examination of law and politics as they relate to the changing status of women in society. Attention to the Canadian scene and the global context.

Politics – Sociology 382H – Protest, contention and social movements

(See Sociology)

Politics 390, 391H, 392H, 393H – Reading course in politics

Open only to students majoring in Politics and designed to provide an opportunity for more intensive examination of material studied in other politics courses. Periodic tutorials. Prerequisite: permission of the department, but see Special Provisos.

Politics 402D – 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 given. (See Special Provisos.)

Politics – Canadian Studies 405 – Contemporary Canadian problems

A project-oriented course which focuses on a set of selected Canadian political problems. Students will have the opportunity to carry out a research project in an area of their choosing. Regular seminars.

Politics 420H – Politics of globalization: thinking critically, thinking globally

"Thinking globally" has become a watchword of living in an era of globalization. Drawing on current theories of world politics, as well as insights afforded by social and political theory, this course explores the issue of how to think critically in global terms. Regular seminars. Prerequisite: *Politics 320H* or permission of the instructor. A political theory course is recommended. *M. Neufeld*

Politics – Comparative Development 423H – Global civil society

(See Comparative Development Studies)

Politics – Comparative Development 424H – Canada and international development

(See Comparative Development Studies)

Politics 425H – Topics in global political economy: money and finance

Monetary and financial issues have assumed central importance in world politics in recent years because of the influence that global money and financial markets have come to exert on political, economic and social relations around the globe. This course examines contemporary debates in the field of global political economy relating to the politics of global money. Regular seminars. Prerequisite: *Politics 322H* or permission of instructor. A political theory course is recommended. *E. Helleiner*

Politics 426H – Political economy of the Asia-Pacific region

An examination of the politics of economic policy and economic relationships within the Asian-Pacific region. Contemporary issues are explored in the context of the changing political economy of the region and the region's importance for the global political economy as a whole. Recommended: *Politics 220*. Highly recommended: *Politics 322H*. A prior political theory course is recommended. *E. Helleiner*

Politics – Comparative Development 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. A prior political theory course is recommended. *A. Pickel*

Politics – Women's Studies 430 – Feminists theorize the political

An examination of contemporary debates within feminist theory. Recommended: one of *Politics 233, 335, 336*, *Women's Studies 300*. Seminar weekly. *E. Stavro*

Politics 432 – Justice and 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. Seminar weekly. Prerequisite: one of *Politics 233, 333, 334, 335, 336*; or *Sociology 210*; or *Cultural Studies 250*; or permission of the instructor. *J. Driscoll*

Politics 433 – Theories of power and resistance

An examination of challenges to conventional political discourse advanced in the theories of power and resistance that we find in a range of figures, from Marx to Freud to more contemporary writers such as Foucault and Irigaray. We will consider the subject amid the forces that structure a field of political action. *E. Stavro*

Politics – Environmental & Resource Studies – Canadian Studies 460H – Public policy in global perspective

This course focuses on economic, health and social policies in the context of global politics while giving special attention to the linkages of these policy areas to environmental issues. Case studies and projects involving primary research are emphasized. Seminar weekly. For students satisfying the requirements of a Politics major, a prior course in political theory is recommended. *R. Paehlike*

Politics – Environmental & Resource Studies – Comparative Development Studies 461H – Global environmental policy

(See Environmental & Resource Studies.) For students satisfying the requirements of a Politics major, a prior course in political theory is recommended. *J. Clapp*

Politics – Environmental & Resource Studies 465 – Green politics in theory and practice
(See Environmental & Resource Studies.)**Politics 480, 481H, 482H**

These course numbers are used to designate a 300-level half-course taken for 400-level credit by special arrangement. See notes for the Bachelor of Arts program in Political Studies.

Politics 487 – Community-Based Education Program

Students undertaking placements must have at 10 credits, with an overall average of at least 75%. For further information, see "Community-Based Education Program" in this Calendar.

Politics 490, 491H, 492H, 493H – Reading course in politics

Open only to students in the fourth quarter of a Politics major program. Periodic tutorials. Alternatively a student may do an internship, involving field and written work in an area related to politics. For further details, see the departmental brochure. Prerequisite: permission of the department, but see Special Provisos.

Politics 495 – Special topic: Post-communist transformation

A study of the political and economic transitions in formerly Communist countries. From a global and comparative perspective, attention will be given to Central and Eastern Europe, the former Soviet Union, China, Vietnam, and Cuba. Recommended: *Politics 320H, 322H or 323H*. *A. Pickel*

PSYCHOLOGY

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 Web: www.trentu.ca/psych

Associate Professor and Chair of the Department

J.B. Aubrey, M.Sc. Ph.D. (ALBERTA) (on leave Fall session 2000 – 2001)

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)

Professors

D.J. Kennett, B.A., Ph.D. (McMASTER); G.T. Reker, B.A. (McMASTER), M.A.Sc., Ph.D. (WATERLOO); C.T. Smith, B.Sc. (MANITOBA), M.A., Ph.D. (WATERLOO); G. Winocur, M.A. (MANITOBA), Ph.D. (WATERLOO) (on leave 2000 – 2001)

Associate Professors

F.A. Bleasdale, B.A. (TORONTO), M.A., Ph.D. (WESTERN ONTARIO); D.G. Lowe, B.A. (McMASTER), M.A., Ph.D. (WATERLOO); J.D.A. Parker, B.A. (SIMON FRASER), M.A., Ph.D. (YORK), R.G. Settrington, M.A., Ph.D. (TORONTO); C.F. Sproule, M.A. (TORONTO); P. Watson, M.A., Ph.D. (WESTERN ONTARIO).

Assistant Professor

E. Scharfe, B.A. (WESTERN ONTARIO), M.A., Ph.D. (SIMON FRASER)

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 caregivers' 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.

New Curriculum

- Beginning in 1997-98 a new curriculum was instituted in the Psychology department. Students who had already declared a major when the new system took effect in 1997-98 may choose to graduate under the new or the old system; the new system is recommended. Otherwise, the rules in effect when the student declares a major will apply when the student graduates. Please consult the *Psychology Student Handbook* for the previous Degree Requirements.
- For students who have declared a Psychology major by July 1, 1997, and take *Psychology 307H, 341H, 352H, or 366H*, the following will apply until July 1, 2001: the 200-level prerequisite to the 300-level course will be considered equivalent to a 300-level course in order to satisfy the department's 300-level requirements and University requirement for at least seven credits beyond the 200-level in the Honours program and at least four in the General program.
- For students choosing to graduate according to the old system, *Psychology 333* may be counted as a specialized course if both *Psychology 315* and *333* are successfully completed.

Notes

- A standing of C- (60%) or higher in *Psychology 101* is a prerequisite for all upper level Psychology courses.
- All courses in Psychology fulfil University science course requirements for the B.Sc.
- Any course involving work with vertebrate animals requires the Animal Care Course which is described on p. 87 of the calendar. The Animal Care Course requirement is indicated in some course descriptions but may also apply to others. Check with the departmental secretary or course instructor if in doubt.
- For non-majors taking courses where *Psychology 215* is a prerequisite, a statistics course in another discipline may be substituted, but only if the permission of the department has been granted.

Bachelor of Arts and Bachelor of Science programs in Psychology

- 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).
- There are two Honours degrees in Psychology, the course option and thesis option. For the requirements see below.
- For students completing a major or joint-major in Psychology, *Psychology 215* satisfies the University mathematics requirement for the B.Sc.
- Students currently registered in the program will be considered under regulations in effect prior to 2000-2001: under these regulations, the thesis option of the Psychology Honours degree is automatically awarded a B.Sc. regardless of number of science credits obtained.
- 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	301
225H	323H	272H	304H
227H	334H	281H	337H
	335H		341H
	352H		343H
	366H		363H
	372H		373H
	375H		381H
	376H		383H
	379H		

- 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: Prof. R. Setterington (rsetterington@trentu.ca) or Prof. J. Aubrey (jaubrey@trentu.ca).

The single-major Honours program (course option) consists of 20 credits. At least 10 credits in Psychology. The program must include:

- *Psychology 101* and *215*
- *Psychology 315* or *333*
- 0.5 credit from each of A2 and B2
- one credit from each of A3 and B3
- one credit in Psychology at the 400-level
- two additional credits in Psychology beyond the 200-level
- one additional credit in Psychology
- for the B.Sc., 14 science credits in the program as a whole

The joint-major Honours program (course option) consists of 19.5 or 20 credits (depending on the joint-discipline). At least eight credits in Psychology. The program must include:

- *Psychology 101* and *215*
- *Psychology 315* or *333*
- 0.5 credit from each of A2 and B2
- one credit from each of A3 and B3
- one credit in Psychology at the 400-level
- one 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) consists of 20 credits. At least 10 credits in Psychology. The program must include:

- *Psychology 101, 215, 315, and 402D* (double-credit thesis)
- 0.5 credit from each of A2 and B2
- one credit from each of A3 and B3
- one additional credit in Psychology at the 400-level
- one 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) consists of 19.5 or 20 credits (depending on the joint-discipline). At least eight credits in Psychology. The program must include:

- *Psychology 101, 215, 315, and 401* (single-credit thesis)
- 0.5 credit from each of A2 and B2
- one credit from each of A3 and B3
- one 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 consists of 15 credits. At least six credits in Psychology. The program must include:

- *Psychology 101 and 215*
- 0.5 credit from each of A2 and B2
- 0.5 credit from each of A3 and B3
- one additional credit in Psychology beyond the 200-level
- one additional credit in Psychology
- for the B.Sc., 11 science credits in the program as a whole

The joint-major General program consists of 15 credits. At least five credits in Psychology. The program must include:

- *Psychology 101 and 215*
- 0.5 credit from each of A2 and B2
- 0.5 credit from each of A3 and B3
- 0.5 additional credit in Psychology beyond the 200-level
- 0.5 additional credit in Psychology
- for the B.Sc., 11 science credits in the program as a whole

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

Psychology 101 – Introduction to psychology

A survey of the major areas of psychology, including its historical development, the methods of the science, biological and perceptual processes, altered states of consciousness, learning, memory, language development, intelligence, personality, abnormal behaviour, and social determinants of behaviour. Two-hour lecture weekly; two-hour lab fortnightly.

Psychology 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- or higher in *PS 101*. (Excludes *PS 302H, 365, 4952*) Two-hour lecture weekly; seminar fortnightly.

Psychology 215 – Basic research methods and statistics

An introduction to methodological, statistical, and computer techniques in psychological research and the application of these techniques to empirical research in the discipline. (For Psychology majors and joint-majors, this course fulfils the Mathematics requirement for the B.Sc.). Prerequisite: C- or higher in *PS 101*. Three-hour lecture weekly; workshop/lab weekly.

Psychology 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- or higher in *PS 101*. (Excludes *PS 221*). Three-hour lecture/demo weekly.

Psychology 225H – Introduction to cognitive psychology

This course focuses on humans as processors of information. Topics surveyed include perception, attention, memory, reasoning and problem solving. Prerequisite: C- or higher in *PS 101*. (Excludes *PS 306, 351*). Two-hour lecture weekly; lab weekly.

Psychology 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 parenting, education, self-control and education are included. Prerequisite: C- or higher in *PS 101*. (Excludes *PS 351, 320*). Two-hour lecture weekly; seminar fortnightly.

Psychology 236H – Introduction to personality theory

A cross-section of personality theories and theorists will be examined: psychoanalytic, neopsychoanalytic, trait, phenomenological, behavioral, and social-learning. Prerequisite: C- or higher in *PS 101*. (Excludes *PS 235*). Two-hour lecture weekly; seminar fortnightly.

Psychology 240H – Introductory abnormal psychology

This course is designed to introduce students to the study of abnormal behaviour including its history, classification, evaluation, and issues, as well as theoretical approaches to abnormality and its treatment. A heavy emphasis will be placed on experimental approaches to abnormal behaviour, but always with a view to the practical and applied aspects of working with abnormal behaviour. Prerequisite: C- or higher in *PS 101*. (Excludes *PS 340*). Two-hour lecture weekly; seminar fortnightly.

Psychology 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- or higher in *PS 101*. (Excludes *PS 271*). Two-hour lecture weekly; seminar fortnightly.

Psychology – Philosophy 277 – Philosophy of mind

(See Philosophy) Not counted as part of the minimum requirements for the General or Honours degrees in Psychology.

Psychology 281H – 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- or higher in *PS 101*. (Excludes *PS 280*). Two-hour lecture weekly; seminar fortnightly.

Psychology 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: *PS 271* or *272H*. Two-hour lecture weekly; seminar fortnightly.

Psychology 301 – Educational psychology

An examination of the ways in which the methods and content of psychology may be applied in the search for solutions to problems of teaching and learning, with emphasis on the theoretical and empirical bases for decisions about what constitutes sound educational practice. Prerequisite: one Psychology 200-level credit other than *PS215*. Two-hour lecture weekly; seminar fortnightly.

Psychology 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: *PS225H* or *306* or *351* and 0.5 credit from B2 category. (Excludes *PS396H*) Two-hour lecture weekly; one-hour seminar fortnightly.

Psychology – Women's Studies 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: *PS 271* or *272H*. Two-hour lecture weekly; seminar fortnightly.

Psychology 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 in weekly lecture/lab sessions include psycholinguistic theory, research methodologies, letter and word recognition processes, text comprehension, the acquisition of reading skill, individual differences in reading ability, and reading disorders. Prerequisites: *PS 215* and one of *PS 202H*, *225H*, *306*, *351*. (Excludes *PS 365*, *4952*). Two-hour lecture weekly; lab fortnightly.

Psychology 315 – Advanced statistics and research design

An intensive study of the application of statistical techniques to a variety of research questions and experimental designs. Focus is on the laws of probability, techniques of analysis of variance and covariance, correlation, regression and multivariate procedures. Prerequisite: *PS 215*. Three-hour lecture weekly; Two-hour workshop weekly.

Psychology 323 – Applied learning

The application of principles of learning and motivation to practical situations including teaching, child rearing, public institutions, and animal training. The two areas of concentration are: a) basic principles of learning and b) their application. Prerequisite: *PS 227H*. (Excludes *PSYC 320*) Two-hour lecture weekly; seminar weekly.

Psychology 333 – Psychometrics

A detailed intensive examination of the principles of test construction, involving item writing, scaling, item analysis, reliability, validity and validity checks. Special topics include empirical keying, factor analysis, and the STATISTICA computer program. In the second half of the course, a number of educational, psychological, and clinical instruments will be examined in depth. Prerequisite: *PS 215*. (Excludes *PS 332H*). Two-hour lecture weekly; two hour seminar/lab fortnightly.

Psychology 334H – Individual differences in abilities

This course examines the nature of intelligence and specific abilities and their relation to other behaviours. Topics include a discussion of selected historical figures and psychometric theories of intelligence; information processing approaches to understanding the nature of abilities; the behaviour genetics of intelligence/abilities; and nature-nurture issues. Prerequisites: *PS 215* and 0.5 credit from A2 category. Recommended pre- or co-requisite: *PS 333*. (Excludes *PS 330a*, *430*). Two-hour lecture weekly; seminar fortnightly.

Psychology 335H – Group differences and abilities

This course focuses on methodological and conceptual issues, as well as research findings, in the study of group differences and abilities. Topics addressed are sex differences, aging, race and culture, and biological-environmental issues. Prerequisite: *PS 334H*; or *PS 215* and any 0.5 credit from A2 category, and *PS 333* as a pre- or co-requisite. (Excludes *PS 330a*, *430*). Two-hour lecture weekly; seminar fortnightly.

Psychology – Biology 336H – Animal behaviour

(See *Biology-Psychology 336H*) Not counted as part of the minimum requirements for the General or Honours degree in Psychology.

Psychology 337H – Personality research

This course is designed to acquaint students with contemporary research in the personality psychology area. Particular emphasis will be placed on the following topics: the biological basis of personality, personality and intelligence, personality and health, personality and psychopathology, and personality stability and change. Prerequisite: *PS 236H*. (Excludes *PS 235*). Two-hour lecture weekly; seminar fortnightly.

Psychology 341H – Advanced abnormal psychology

This course is designed to explore in depth a cross-section of basic topics in abnormal psychology. Particular emphasis will be placed on the following topics in the abnormal area: anxiety disorders, somatoform disorders, dissociative disorders, mood disorders, substance abuse, schizophrenia, life-span developmental disorders, and sexual disorders. Prerequisite: *PS 240H*. (Excludes *PS 340*). Two-hour lecture weekly; seminar fortnightly.

Psychology 343 – Health psychology

Current views on the interface between psychosocial processes and physical health will be examined. Focus is on theory-based psychological research and on the practice of health psychology. Topics include major models of health and illness, research methods commonly employed, the impact of chronic illness on psychological well-being, and lifestyle and risk factors in various medical disorders such as cancer, cardiovascular disease and AIDS. Prerequisite: *PSYC 215* and one 200-level Psychology credit. (Excludes *PSYC 353, 450*) Two-hour lecture weekly; seminar/workshop weekly.

Psychology 352H – Memory

This course examines the processes and strategies underlying memory phenomena in humans, including their application to real-world events. Topics considered include imagery; working memory; memory as a constructive process; emotion and memory; implicit/explicit memory; memory disorders; and abilities and memory. Prerequisites: *PS 215* and *225H*. (Excludes *PS 306* and *351*). Two-hour lecture weekly; seminar fortnightly.

Psychology 363H – Aging and psychosocial adaptation

Theory and research of usual aging within the framework of the life span perspective will be examined. Primary focus will be placed on psychological and existential factors that emphasize the inner development of the aging person. Topics to be covered include the life span theory of aging, quantitative and qualitative research methods, lifestyle factors, stability/change in personality, subjective well-being, the role of social resources, the role of mental attitudes (optimism and existential meaning), life review, stress and coping, death attitudes, and end-of-life decisions. Prerequisites: *PSYC 280* or *281H*. (Excludes *PSYC 380, 480*). Two-hour lecture weekly; seminar weekly.

Psychology 366H – Sensation and perception

An intensive examination of how humans perceive the information that is presented to the senses. Topics include mechanisms of perception, detection, discrimination and pattern recognition. Prerequisites: *PS 215*; and 0.5 credit from A2 category. (Excludes *PS 306*).

Psychology 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. Two-hour lecture weekly; seminar fortnightly.

Psychology 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. Prerequisites: One of *PS 221, 222H, 235, 236H*. Two-hour lecture weekly; seminar fortnightly.

Psychology – Biology 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: *PS 221* or *222H* or one of *BI 207H, 211H, 382*. Two-hour lecture weekly; two-hour lab weekly.

Psychology – Biology 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: *PS 221* or *PS 222H* or *PSBI 375H*. Two-hour lecture weekly; seminar fortnightly.

Psychology 379H – Aging and cognition

A detailed examination of the changes in cognitive functioning that accompany the aging process. A multidimensional approach to cognitive aging will be taken. While consideration will be given to the alterations in nervous and sensory systems that help explain decrements, attention will also be focused on the experiential factors that lead to maintenance and improvements in many cognitive skills. Prerequisites: PS215 and one of PS 225H, 306, 351. (Excludes: PS 380, 480). Two-hour lecture weekly; seminar fortnightly.

Psychology 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. Prerequisites: PS280 or 281H. Two-hour lecture weekly; seminar fortnightly.

Psychology 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. Prerequisites: PS280 or 281H. Excludes PS382. Two-hour lecture weekly; seminar fortnightly.

Psychology 387H – Research practicum I

A course designed to allow students in the third or fourth year of their psychology honours degree program to pursue research activities under the direction of a department faculty member, normally within that person's ongoing research program. This course is not counted as part of the minimum requirements for the Honours degree. Prerequisites: 75% or higher in PS 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 department chair prior to registering in the course.

Psychology 388H – Research practicum II

A second practicum can be taken with a different faculty member. Same prerequisites as for PS 387H apply.

Psychology 390, 391H, 392H – Reading course

A course designed to allow advanced students in Psychology to pursue independent study under the direction of departmental faculty. Not counted as part of the minimum requirements for the General or Honours degrees in Psychology. Prerequisite: Psychology 215 and permission of the department. Students intending to take a reading course must consult with the department chair prior to registering in the course.

Psychology 401/402D – Honours thesis

For single-major Honours students, PS 402 is a double-credit course for which a double fee is charged. Joint-major Honours students will normally take the single-credit PS 401 in conjunction with a single-credit honours thesis course in the other discipline of the joint major. In both cases, students will design and execute a major piece of psychological research under the supervision of departmental faculty and participate in periodic workshops and departmental colloquia. Prerequisites: (a) PS 315 and at least 0.5 credits from each of A2, B2, A3, and B3, (b) an average of 75% or better in all psychology courses completed, and (c) permission of the department. The thesis should be taken in the final year of the student's degree. Two-hour weekly meetings.

Psychology 411H – Advanced topics in perception, learning, cognition and language

For 2000 – 2001, the topic is Mental Representation. A study of approaches to mental representation including mental models, imagery, formal propositions, as well as symbolic and connectionistic computations. Prerequisites: PSYC 315 or 333; and honours standing; and at least one 300-level Psychology credit; and one of PSYC 202H or 225H.

Psychology 412H – Advanced topics in perception, learning, cognition and language

For 2000 – 2001, the topic is Inference Processes in Language Comprehension. A detailed examination of recent theory and empirical research on the role of inference in establishing coherence and enhancing meaning in understanding spoken and written language. Prerequisites: *PSYC 315* or *333*; and honours standing; and at least one 300-level Psychology credit; and *PSYC 202H* or *307H*. *PSYC 315* or *333* will be accepted as a co-requisite rather than prerequisite, provided the student has successfully completed 15 university credits.

Psychology 423H – Advanced topics in physiological psychology and neuroscience

For 2000 – 2001, the topic is Sleep States and Memory Processes. A study of the data from animal and human studies and an evaluation of the theories arising from such studies. Consideration of research strategies to study the sleep-memory relationship. Examination of the role of dreams in memory processing. Prerequisites: *PSYC 315* or *333*; and honours standing; and at least one 300-level Psychology credit; and *PSYC 372H*. *PSYC 315* or *333* will be accepted as a co-requisite rather than prerequisite, provided the student has successfully completed 15 university credits.

Psychology 431H – Advanced topics in personality, social, abnormal and development

For 2000 – 2001, the topic is Psychology of Sexual Violence. An examination of models of sexual violence and contemporary research findings with particular emphasis on beliefs about sexual assault and their relationship to judgements about and commission of sexual assault. Prerequisites: *PSYC 315* or *333*; and honours standing; and at least one 300-level Psychology credit; and *PSYC 304H*. *PSYC 315* or *333* will be accepted as a co-requisite rather than prerequisite, provided the student has successfully completed 15 university credits.

Psychology 434H – Advanced topics in personality, social, abnormal and development

For 2000 – 2001, the topic is Successful Aging. A study of the factors that promote successful aging, including personal optimism, meaning and purpose in life, creative coping, and life review. Emphasis will be placed on conceptual/theoretical approaches, the use of quantitative and qualitative methods, and the application of guided autobiography as a life review technique. Prerequisites: *PSYC 315* or *333*; and honours standing; and at least one 300-level Psychology credit; and *PSYC 280* or *281H*. Note: for future offerings of this course, *PSYC 363H* will replace the *PSYC 281H* prerequisite. *PSYC 315* or *333* will be accepted as a co-requisite rather than prerequisite, provided the student has successfully completed 15 university credits.

Psychology 435H – Advanced topics in personality, social, abnormal and development

For 2000 – 2001, the topic is Psychopathology. A description for this course will be available in mid-March. Prerequisites: *PSYC 315* or *333*; and honours standing; and at least one 300-level Psychology credit; and *PSYC 341H*. *PSYC 315* or *333* will be accepted as a co-requisite rather than prerequisite, provided the student has successfully completed 15 university credits.

Psychology 471H – History of psychology

This course is designed to give students an overview of the historical and philosophical foundations of modern psychology. Although the subject matter extends over a long time period, special attention will be directed at ideas, people, and events occurring in the 19th and early 20th centuries. Prerequisites: Any four Psychology credits. Excludes *PS470*. Two-hour lecture weekly, seminar fortnightly.

Psychology 490, 491H, 492H – Reading course

A course designed to allow students in the fourth year of their Psychology program to pursue independent study under the direction of departmental faculty. Not counted as part of the minimum requirements for the Honours degree. Prerequisite: *Psychology 215*, plus successful completion of at least 10 credits, plus Honours standing, plus permission of the department. Students intending to take a reading course must consult with the department chair prior to registering in the course.

SCIENCE

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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. *Science 350* is administered by the Associate Dean of Arts and Science (Science).

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

Physics 150 – Introductory astronomy (See Physics)

Physics – Science 209 – Introduction to physical science (See Physics)

Mathematics 280 – Mathematics for the contemporary classroom (See Mathematics)

Physics 250 – Selected topics in astronomy and cosmology (See Physics)

Science 350 – Communicating science

This course is designed to help students develop their skills in communicating science to colleagues in their own field and to specific audiences within the general public. Focus is on written and oral communication skills, although non-traditional skills (theatre, displays, games) are also examined. Computers and audio-visual equipment are used extensively. Open to science students and to students in the Teacher Education Program with a minimum of three science credits or with the permission of the instructor.

M. Havas

Science – Mathematics 380 – History of mathematics (See Mathematics)

SOCIOLOGY

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Associate Professor and Chair of the Department

J. Conley, B.A. (ALBERTA), M.A. (TORONTO), Ph.D. (CARLETON)

Professors Emeriti

R.T. Bowles, B.Sc. (BRIGHAM YOUNG), Ph.D. (OREGON); R.A. Lockhart, M.A. (SIMON FRASER), Ph.D. (ESSEX)

Professors

P. Bandyopadhyay, B.A. (CALCUTTA), M.A. (OXFORD, MANCHESTER), Ph.D. (MANCHESTER); A. Heitlinger, B.A. (KENT), Ph.D. (LEICESTER); J. Hillman, M.A. (OXFORD), Ph.D. (SUNY, BUFFALO) (*on leave 2000 – 2001*); C.V. Huxley, B.A. (YORK, ENG.), M.A. (SIMON FRASER), Ph.D. (TORONTO) (*on leave Winter 2001*).

Associate Professors

S. Arat-Koc, B.A. (BOGAZICI), M.A. (WATERLOO), Ph.D. (TORONTO); D.M. Clarke, B.A. (TRENT), M.A. (McMASTER), Ph.D. (CARLETON); S. Katz, B.A. (YORK), M.A. (McGILL), Ph.D. (YORK); B.L. Marshall, M.A. (GUELPH), Ph.D. (ALBERTA); F. Nutch, B.A. (ADELPHI), M.A. (HAWAII), Ph.D. (YORK); G.M. Thibault, B.Ed., M.A., Ph.D. (DALHOUSIE).

Assistant Professors

A. Law, B.A.S. (SYDNEY), M.A. (ALBERTA), Ph.D. (ALBERTA)

Notes

- A standing of C- (60%) or higher in *Sociology 100* is a prerequisite for all upper level Sociology courses, with the possible exception of cross-listed courses, for which students should check the prerequisites.
- Courses at the 300-level are open to students who have completed five credits, including at least one credit in Sociology at the 200-level. Students are strongly encouraged to complete one credit from among *Sociology 210, 220, 221H, and 222H* before proceeding to 300-level courses.

- 400-level courses are open to students who have completed 10 university credits, of which at least two should be at the 300-level. Students are strongly encouraged to complete at least two credits from among *Sociology 210, 220, 221H, 222H* and *230* before proceeding to 400-level courses.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Registrar's Office 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

- The Program has two tiers: foundation courses in basic areas of Sociology at the 100- and 200-level, and courses in specialized areas of Sociology at the 300- and 400-level. The foundation courses aim to provide a grounding in the core theoretical and methodological aspects of the discipline. The specialized courses permit students to study in some detail particular substantive areas in sociology.
- *Economics – Administration 220H, Geography – Environmental & Resource Science – Biology 208H, Mathematics – Statistics 150, Psychology 215, or Psychology 315* are equivalent to *Sociology 222H* for program requirements, but do not count as a Sociology credit.
- Students planning to enter graduate school are strongly advised to take at least one of *Sociology 403H* or *404H*.

The single-major Honours program consists of 19 credits. At least nine credits in Sociology, including:

- *Sociology 100, 210, 221H, and 222H*
- one credit at the 400-level
- three credits beyond the 200-level
- three additional credits

The joint-major Honours program consists of 19 credits or 19.5 credits (depending on the joint-discipline). At least seven credits in Sociology, including:

- *Sociology 100, 210, 221H, and 222H*
- one credit at the 400-level
- two credits beyond the 200-level
- one additional credit

The single-major General program consists of 15 credits. At least six credits in Sociology, including:

- *Sociology 100* and *210*
- two credits at the 300-level
- two additional credits

The joint-major General program consists of 15 credits. At least five credits in Sociology, including:

- *Sociology 100* and *210*
- one credit at the 300-level
- two additional credits

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

Sociology 100 – Introduction to sociology

An introduction to sociology's major thinkers, theories, methods and fields of research, and how they are used to understand social life; from everyday interactions to the structures of global societies. Course materials focus on contemporary social issues by drawing on Canadian and comparative contexts. *S. Katz and staff*

Sociology 210 – Classical sociological theory

An examination of the structure and scope of sociological theorizing. Conceptions of theory, method, and object of investigation will be explored with regard mainly to Marx, Weber and Durkheim. Prerequisite: At least three university courses and C- or higher in *Sociology 100*. *P. Bandyopadhyay, B. Marshall*

Sociology 220 – Social inequality: class, gender, ethnicity

The sociological study of social inequality, concentrating on class, gender, and ethnicity as relations of domination will be explored through a variety of theories and methods. The course will focus on the structural analysis of these social relationships, their links with each other, and their effects on societies and individuals. Prerequisite: C- or higher in *Sociology 100*. *G. Thibault, J. Conley*

Sociology 221H – Research methods

An introduction to the major research methods employed in sociological research. Prerequisite: C- or higher in *Sociology 100*. *A. Law, A. Heitlinger*

Sociology 222H – Statistics

An introduction to basic statistics and their application in sociological research. Prerequisite: C- or higher in *Sociology 100*. *Sociology 222H* is not open to students who have completed or are currently registered in *Economics – Administrative Studies 220H*, *Geography – Environmental & Resource Science – Biology 208H*, *Mathematics – Statistics 150*, *Psychology 215* or *Psychology 315*. *A. Law*

Sociology – History 223 – The other Europe (See History)**Sociology 230 – Self and social interaction**

This course examines the social dimension of the self and social interaction from the perspectives of symbolic interactionism, sociological psychology and ethnographic research. Topics include body language, conversation, behaviour in public spaces, social relationships, and the shaping of identity and emotional life in cross-cultural, historical and contemporary contexts. *S. Katz, F. Nutch*

Sociology 241 – Families and households

Sociological frameworks are applied to the analysis of different family forms, internal family processes, and the societal contexts which shape families. Topics include mate selection and couple formation, sexuality, marriage and divorce, childbirth and child development, the division of household labour, family stress and family violence. Prerequisite: C- or higher in *Sociology 100*. *D. Clarke*

Sociology – Canadian Studies – Women's Studies 286H – Immigrant women in Canada: gender, race, class, ethnicity and the state

(See Women's Studies)

Sociology – Canadian Studies – History 300 – Canada: communities and identities

(See Canadian Studies)

Sociology – Politics 305 – Politics and society in Quebec (See Political Studies)**Sociology – Administration 333H – Social organizations**

The course examines the nature and role of formal organizations, or bureaucracies in the contemporary world. The classical and managerial traditions, as well as recent sociological perspectives, will be the tools to understanding bureaucracies. Case studies, focusing on formal organizations in the public and private sectors, are a key component of the course. Prerequisite: A full credit 200-level Sociology course or a cross-listed equivalent, or *Administration 250*.

Sociology 334H – Sociology of work

The nature and meaning of paid work in North America in the last half of the 20th century. 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: A full credit second year sociology course or a cross-listed equivalent, or *Administration 250*.

Sociology – Canadian Studies 341H – Sociology of education

The development of formal education as a social institution, its social and political organization, schooling as a social process, the occupation of teaching, the relationship between education and social inequalities, and current changes and challenges. The focus is on education in Canada with comparisons to other societies when appropriate. Prerequisite: *Sociology 210 or 220, or Canadian Studies 200 or 300.* (Not open to students with credit in the former *Sociology-Canadian Studies 340.*) *J. Conley*

Sociology – Women's Studies 343H – Sociology of gender

This course will focus on gender as both an analytical construct in sociological theory and research, and as a key aspect of social organization. Issues to be examined include the social construction of masculinity and femininity, theories of gender acquisition and the social reproduction of gender inequalities. Prerequisite: A full credit second year sociology course or a cross-listed equivalent. (Not open to students with credit in the former *Sociology-Women's Studies 342.*) *S. Arat-Koc*

Sociology – Women's Studies 344H – Social construction of sexuality

This course will explore sexuality, in its many dimensions, as a complex issue in sociological analysis. Focusing on the manner in which sexuality itself is constructed in and through the social, we will discuss theoretical treatments of the body, gender and sexuality, examine the construction of 'normal' and 'deviant' sexualities, and explore forms of sexual regulation and resistance. Prerequisite: A full credit 200-level sociology course or a cross-listed equivalent. *B. Marshall*

Sociology 345 – Culture and society

As a critical examination of culture in contemporary society, this course focuses on the connections between cultural practices and the social formation, with emphasis on the contexts of both cultural production and consumption as they are mediated by relations of capital and technology. Topics include ideology, consumerism, advertising, cultural nationalism and policy, science, technological determinism and the commodification of nature. Prerequisite: A full-credit 200-level sociology course.

Sociology 347 – Religion and society

This course investigates sociological reflections upon the functions of religions in various societies, the social organization of rituals and religious practices and the phenomenology of religious experiences. Studies will be drawn from a few of the major world religions. Prerequisite: A full-credit 200-level sociology course.

Sociology 363 – Sociology of health and illness

An analysis of health care systems. Topics include definitions of health and illness, medical technology and health professions, health care politics and policy, and class and gender relations in health care delivery systems. Prerequisite: A full-credit 200-level sociology course. *A. Heitlinger*

Sociology 364H – Deviance and social control

This course examines major sociological theories and debates about deviant behaviour, including the social construction of normality and deviance and their institutionalization, and informal modes of social control. Prerequisite: A full-credit 200-level sociology course. (Not open to students with credit in the former *Sociology 361.*)

Sociology 365H – Crime and regulation

This course examines those forms of deviant behaviour which are defined as criminal in terms of meaning, variety and distribution, as well as formal modes of their regulation, including policing and the criminal justice system. Prerequisite: A full-credit 200-level sociology course. (Not open to students with credit in the former *Sociology 361*)

Sociology 366 – Analysis of social policy

An examination of the expanding role of state and government institutions in shaping socio-economic conditions and social welfare. Policy formulation and implementation will be assessed with emphasis on such sectors as education, health, housing and welfare. Prerequisite: A full-credit 200-level sociology course.

Sociology 382H – Protest, contention and social movements

An examination of sociological theory and research on contemporary social movements covering topics such as mobilization and organization, collective identities, forms of contentious action, relationships between contenders and powerholders, and the outcomes of social movements. Prerequisite: *Sociology 210 or 220* or at least one 200-level *Political Studies* course. J. Conley

Sociology – Canadian Studies 388H – Selected topics in Canadian social structure: Canada compared

An examination of aspects of Canadian society in comparison with the United States and other societies. Possible topics include: class formation, regionalism, ethnicity, welfare state. Prerequisite: *Sociology 220 or Canadian Studies 200 or 300*.

Sociology 396H – Special topic: Applied sociological research

This skill-based third year sociology course addresses basic practices of sociological research done for the purpose of recommending courses of action for social agencies to pursue. The course will canvass a range of purposes to which such applied research is put (with an emphasis on program evaluation and social policy impact analysis) and will deliver basic skills in carrying out such research. Skill areas include surveys, interviews, focus groups and document analysis. The course will be based around 'live' research projects that meet specific needs of social agencies. Prerequisite: *Sociology 221 and 222* or equivalents, or permission of the instructor. A. Law

Sociology 402D – Honours thesis

A specific scholarly project on a well-defined topic, for which double credit will be given, to be worked out in consultation with the student's Honours supervisor. Prerequisite: 75 % (B) average in sociology courses. Regular meetings with students writing Honours thesis.

Sociology 403H – Key concepts in contemporary sociological analysis

This year, the course will focus on 'society' and 'the social' as they have been conceptualized in a range of theoretical traditions. Topics include the individual-society relationship, social change, theories of the public sphere and citizenship, and postmodern decentring of the social. Prerequisite: *Sociology 210* or permission of the instructor. (Not open to students with credit in the former *Sociology 400*.) B. Marshall

Sociology 404H – Contemporary sociological theory II: Theory, knowledge and method

This course will explore some of the fundamental questions related to the sociology of knowledge and philosophy of social science, including debates about foundations, positivism, objectivity, ideology, standpoint theories, and the interface of theory, methodology and political interests. Prerequisite: *Sociology 210* or the permission of the instructor. *Sociology 403H* is recommended. (Not open to students with credit in the former *Sociology 400*).

Sociology – Cultural Studies 441H – The sociology of culture and knowledge

The course reviews Michel Foucault's theories of power, subjectivity and governmentality and their importance to critiques of neoliberal politics, risk management, informational technologies, expertise, consumer modes of selfhood and lifestyle, and market rationalities. Prerequisite: *Sociology 210*, or *Cultural Studies 250* (Excludes *Sociology-Cultural Studies 440*). S. Katz

Sociology 442H – Aging and the lifecourse

The course explores the field of social gerontology, population aging, retirement and lifestyle, intergenerational relations, caregiving and social support, and critical approaches to aging and ageism in the humanities, feminism, post-modernism, and cross-cultural studies. Prerequisite: *Sociology 220*, and one of *Sociology 221H, 222H, 230 or 363*. S. Katz

Sociology – Canadian Studies 445 – The media and communications in Canada

(See Canadian Studies) D. Clarke

Sociology 451H – Sociology of sport and leisure

This course critically examines cultural and economic relations in sport and leisure. Topics include outdoor recreation, spectator sport, informal play, and tourism. Topics will be explored from both contemporary and historical perspectives with emphasis on the dynamics of power and identity. Prerequisite: A full credit third year Sociology course or permission of the instructor. A. Law

Sociology – Women's Studies 461H – Gender, regulation and resistance

An advanced critical examination of the ways in which 'gender' is produced, regulated and contested in contemporary societies. Topics will include debates about equality, difference and 'biopolitics', cultural and political representations of gender, and both formal and informal modes of resistance. Prerequisite: *Sociology-Women's Studies 343H* or *Sociology-Women's Studies 344H*.

Sociology – Women's Studies 462H – Advanced studies in social policy

In-depth study and analysis of aspects of contemporary social policy in Canada, with particular attention to their relation to class, gender and ethnic/racial inequalities. Policy areas to be investigated may include: family, pay and employment equity, social welfare, health, criminal justice, and housing. Prerequisite: At least two of *Sociology 210, 220, 230, and 221H*, and *222H* or equivalent. *G. Thibault*

Sociology – Comparative Development Studies 470H – Social movements-religion in development (See Comparative Development Studies)**Sociology 480 – Comparative social analysis**

Travel as a method of comparative analysis. Topics include ethnocentrism, orientalism, the 'politics' of location in the production and reception of knowledge, the use of travellers' reports in historical and comparative research, year abroad programs, and critical reflections on personal experiences of travel. Prerequisite: *Sociology 210*, or permission of the instructor. *A. Heitlinger*

Sociology 496H – Special topics in sociological investigation

This year: The sociology of food. An examination of food from an interactionist perspective. Topics include: food as a social construct, dietary practices and the social organization of food, the production, distribution and consumption of food, cooks and kitchens, food as medicine, and eating out. The course will include one or two local field trips. Expenses for each trip will be the student's responsibility. Prerequisite: *Sociology 230* or permission of the instructor. *F. Nutch*

Reading Courses

Both full- and half-year reading courses are available as *Sociology 390, 391H, 392H, 393c, 490, 491H, 492H, 493c*. Registration in reading courses is contingent on instructor's permission and departmental approval in advance of course registration.

Special Topics Courses

Both full- and half-year special topic courses are available as *Sociology 395, 396H, 397H*.

SPECIAL CONCENTRATION PROGRAMS

Special Concentration Programs exist in order to accommodate students whose academic needs cannot be met by majors in any of the existing disciplines.

Special Concentration Programs are offered in International Studies (see p. 194) and, as joint programs with Sir Sandford Fleming College, in Museum Studies and Nursing (see p. 249).

Students also have the option of creating their own Special Concentration Program. This option is intended for students who have given evidence of superior academic ability and intellectual independence, and is normally available only as an Honours degree. Students choosing this option must provide a unifying rationale for their choice of courses. Proposals which lack a unifying rationale, or which are the equivalent of major or joint-major programs missing one or more required courses, will not be approved.

Students apply to the Committee on Undergraduate Standings and Petitions through the senior tutor of their college, before the end of the first year of studies. Before applying, students should consult their Senior Tutor, who will provide advice throughout the process of developing a proposal, ensuring that the program meets the University's degree requirements, and obtaining approval from the academic departments or programs concerned.

Applications should outline the unifying rationale of the program and identify the remaining courses required for the degree in question. In exceptional cases only will the Committee on Undergraduate Standings and Petitions consider retroactive applications for the program from students who have earned more than five credits. In such cases,

any credits earned thereafter must be consistent with the rationale of the program.

Once approved, Special Concentration Programs are monitored by the Committee on Undergraduate Standings and Petitions. Changes to course selection may be made only through petition to the Committee.

The Special Concentration Program normally consists of 20 credits of which at least two must be at the 400-level.

A maximum of three credits with D grades may be counted towards the degree. After enrolment in the program, a maximum of two credits with D grades may be counted.

STATISTICS

See Mathematics

WOMEN'S STUDIES

Telephone: (705) 748-1436

Fax: (705) 748-1630

E-mail: womenst@trentu.ca

Web: www.trentu.ca/womenstudies

Chair of the Program

To be named

Professor

J. Sangster, B.A. (TRENT), M.A., Ph.D. (McMASTER) (on leave Winter session)

Associate Professors

S. Arat-Koc, B.A. (BOGAZICI), M.A. (WATERLOO), Ph.D. (TORONTO); M. Hobbs, B.A. (TRENT), M.A., Ph.D. (TORONTO); W. Lem, M.A., Ph.D. (TORONTO)

Assistant Professors

A. Goebel, B.A. (TORONTO), M.A. (ST MARY'S), Ph.D. (ALBERTA);

Associated Faculty

Canadian Studies, M. Lacombe; *English Literature*,

J.A. Buckman, M.C. Eddy, R.J. Dellamora; *History*, F. Harris-Stoertz, *Political Studies*,

E. Stavro; *Sociology*, B.L. Marshall, G.M. Thibault, A. Heitlinger; *Native Studies*,

E. Manitowabi, S.I. Williams

Notes

- Some Women's Studies courses cross-listed with other departments and programs have prerequisites not listed here.
- Students who have fulfilled the requirements for a single-major Honours degree in another subject may apply to the Registrar's Office 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

- There is no single-major General degree in Women's Studies.
- No more than one credit from reading courses may count towards the number of Women's Studies credits required for the joint-major General degree; and no more than two towards the number required for the single- and joint-major Honours degrees.
- Students who entered the program before 1993-94 should substitute *Women's Studies 200* for *Women's Studies 100* in the requirements for a major.

The single-major Honours program consists of 19 credits. At least nine credits in Women's Studies, including:

- *Women's Studies 100, 201, and 300*
- three credits at the 400-level
- three additional credits

The joint-major Honours program consists of 19 or 19.5 credits (depending on the joint-discipline). At least seven credits in Women's Studies, including:

- *Women's Studies 100, 201, and 300*
- one credit at the 400-level
- one additional credit beyond the 200-level
- two additional credits

The joint-major General program consists of 15 credits. At least five credits in Women's Studies, including:

- *Women's Studies 100, 201, and 300*
- two additional credits

Please consult the academic timetable to determine which of the courses listed will be offered in 2000 – 2001.

Women's Studies 100 – Introduction to women's studies

An interdisciplinary introduction to women's studies. The course explores the intersections of gender, race, class, and sexuality in the construction of gender relations, historical and contemporary feminist movements, as well as selected feminist issues such as the body, violence, poverty, and cultural production. Lecture, seminar weekly. (Excludes *Women's Studies 200*.) *A. Goebel, M. Hobbs*

Women's Studies 201 – Introduction to feminist research

This course provides an introduction to feminist research methods and the debates surrounding them. It includes an overview of feminist critiques of some traditional academic disciplines, their theoretical underpinnings and methods of doing feminist research. Prerequisite: *Women's Studies 100*. *A. Goebel*

Women's Studies – Philosophy 231 – Feminist philosophy (See Philosophy)

Women's Studies – Classical Civilization 231H – Women in the Greek world, c. 700-300 B.C (See Ancient History and Classics)

Women's Studies – Classical Civilization 232H – Women in the Roman world, 100 B.C. – A.D. 300 (See Ancient History and Classics)

Women's Studies – Canadian Studies – English 266 – Canadian women's writing (See Canadian Studies)

Women's Studies – Canadian Studies 275H – Canadian women and place: religion in life and art (See Canadian Studies)

Women's Studies – History 276 – Women in Britain and Europe (See History)

Women's Studies – Canadian Studies – Sociology 286 – Immigrant women in Canada: gender, race, class, ethnicity and the state (Not offered this year)

Women's Studies 300 – Feminist critical thought

An examination of the development of feminist theory through classic texts and the debates those texts have inspired. The course focuses on key debates in Marxism and socialist feminism, literary theory, psychoanalysis, and feminist epistemology. Lecture, seminar weekly. Prerequisite: *Women's Studies 100* and *201*, or permission of instructor. *S. Arat-Koc*

Women's Studies – Psychology 304H – The psychology of gender (See Psychology)

Women's Studies – English 310 – Gender and literature (See English)

Women's Studies – Canadian Studies – History 3161H – Canadian women's history (See History)

Women's Studies – Canadian Studies – History 3162H – Canadian women's history (See History)

Women's Studies – Geography – Canadian Studies 322H – Gender, society and space (See Geography)

Women's Studies – Comparative Development 325 – 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. Prerequisites: *WS100* or *CD100* or permission of the instructor. *W. Lem*

Women's Studies – Politics 336 – The body politic/The body in politics (See Political Studies)

Women's Studies – Sociology 343H – Sociology of gender (See Sociology)

Women's Studies – Sociology 344H – Social construction of sexuality (See Sociology)

Women's Studies – Native Studies 350 – First Nations women (See Native Studies)

Women's Studies – German 351H – Women and socialism: the East German context
(See German)

Women's Studies – Cultural Studies 381 – World cinema. 2000–2001: Chinese cinemas
(See Cultural Studies)

Women's Studies 390, 391H, 392H, 393H – Reading course

Designed to pursue special research interests in women's studies largely through independent study. Details to be arranged in consultation with Women's Studies staff and proposal to be submitted to program for approval.

Women's Studies 395 – Special Topics Consult program office

Women's Studies – Canadian Studies 397 – Special topic: Women, health and environment

This course provides an interdisciplinary exploration of the gender, race, class and sexuality dimensions of environmental issues and environmental movements. The main focus is on women's role as activists connecting health and ecology in their own communities, primarily in Canada and the U.S., but with attention paid to the links between the North and the South. *M. Hobbs*

Women's Studies 401 – Honours thesis

Single credit. Consult program office for information and procedure. Students wishing to take a double credit thesis with one credit applied to WS and the second to their other major should see the Women's Studies Program Chair.

Women's Studies – Anthropology 422 – Women: an anthropological perspective
(See Anthropology)

Women's Studies – Political Studies 430 – Feminists theorize the political
(See Political Studies)

Women's Studies – Sociology 461H – Gender, regulation and resistance (See Sociology)

Women's Studies – Sociology 462H – Women and social policy (See Sociology)

Women's Studies – Cultural Studies 480 (formerly WS-CU4955) – Feminist film theory
(See Cultural Studies)

Women's Studies – Canadian Studies 4951 – Canadian feminist organizing

This course analyzes key issues, struggles, debates, conflicts and forms of organization shaping contemporary Canadian feminism in local, national and international arenas. Feminist interventions in debates about diversity and globalization will be examined, with a special focus on poverty, housing, work, sexuality and health. Prerequisites: *Women's Studies 100, Women's Studies 300* or permission of the instructor. *M. Hobbs*

Women's Studies 4952 – Women and gender in Sub-Saharan Africa

An interdisciplinary study of selected topics such as culture, ethnicity, health, sexuality, religion, economics, politics, agriculture and natural resources relevant to the study of women and gender in Sub-Saharan Africa. Prerequisites: One of *CD100, AN100, AN200, WS100, HI240, AN301* or permission of the instructor. *A. Goebel*

Women's Studies 490, 491H, 492H, 493H – Reading course

Consult program office for registration and procedure.

Women's Studies 495, 496H, 497H, 498H – Special topics Consult program office.

Women's Studies – English 4956 – Special topics: Writing the body (See English)

JOINT PROGRAMS WITH SIR SANDFORD FLEMING COLLEGE

Trent University, in co-operation with Sir Sandford Fleming College, offers several joint programs which extend educational opportunities by combining theory and practice in a number of professional and career fields. Currently degree programs are available in Geographical Information Systems, Museum Management and Curatorship, and Nursing; and a non-degree certificate program is available in *Child and Family Studies*.

DEGREE PROGRAMS

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, who have successfully completed the requirements of the Emphasis Program, will contain the notation "with an Emphasis in Geographical Information Systems." The program also leads to an Advanced GIS Applications Specialist Certificate from Sir Sandford Fleming College's School of Natural Resources.

Students admitted to the program register as full-time Fleming students during the third year of their Honours program. Classes are held at the Lindsay campus of the School of Natural Resources. Courses lead to a 2-semester certificate. Students who complete the certificate with a minimum average of B- (70%) and a minimum of 65% in all courses will receive five upper level science or arts credits of which three will count as 300-level credits in their major and two will count as unassigned Science or Arts credits.

Application procedures

- Applicants must consult with the chair(s) of the appropriate departments or programs at Trent.
- Applications, including a completed application form, must be submitted to the chair(s) consulted at Trent 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.
- The deadline for applications is January 20 in the second year of the Trent program.
- Students are informed of the result of their application before the deadline for Early Registration at Trent. If their application was successful they receive a letter of acceptance and contact information for the Fleming year of the program.
- Students admitted to the program are also required to apply to the Ontario College Application Service in Guelph. Application forms are available at Trent from the chair(s) of the appropriate departments or programs or from the Registrar's Office, and at Fleming from the Admissions Office.
- Admission is subject to review of final grades in the second year of the Trent program.
- Students enrolled in the Fleming program in their third year may participate in Trent's Early Registration for the fourth year of their Trent program.

Fees

- Students pay community college fees during the third year of their program (consult the Fleming calendar for details on fees) and Trent fees for the other three years.
- Students are also required pay the appropriate fee to the Ontario College Application Service in Guelph.

Facilities

- Students in the program have access to the library and faculty at Trent

Courses

- The prerequisites for the program consist of at least 10 university credits, with suitable standing towards a Trent Honours degree, including the 100-level introductory course plus at least two additional credits in the student's major.
- All students entering the program should have successfully completed *Geography – Environmental & Resource Science 209H* and *Computer Studies 101H* and *Computer Science 102H*.

- All Geography majors should have successfully completed *Geography – Environmental & Resource Science – Biology 208H* and either *Geography 211H* or *Geography – Environmental & Resource Studies 251H*.
- Students are urged to acquire as much computer programming experience as possible beyond the required courses in order to equip themselves for the Technical Issues component of the Fleming year. Experience in algorithm design with C++ programming language, 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 and Resources Science/Studies Program.

Museum Management and Curatorship

The Museum Management and Curatorship program leads to a Special Concentration degree in Museum Studies from Trent University. It also leads to an Advanced Certificate in Museum Management and Curatorship from Sir Sandford Fleming College.

Students admitted to the program register as full-time Fleming students during the third or fourth year of their Honours program. Classes are held at the Brealey campus. Courses lead to a three-semester certificate. Students who complete the certificate with a minimum average of B- (70 %) will receive up to four upper level credits towards a Trent Honours degree.

Application procedures

- Application is by letter to the chair of the Museum Management and Curatorship Committee at Trent, Professor Julia Harrison.
- Selection is based on the program of courses completed and on cumulative averages to date, including mid-year grades in the year in which the application is made.
- The deadline for applications is January 31 in the year preceding the Fleming year of the program.
- Students are informed of the result of their application before the deadline for Early Registration at Trent. If their application was successful they receive a letter of acceptance and contact information for the Fleming year of the program.
- Students admitted to the programs are also required to apply to the Ontario College Application Service in Guelph. Application forms are available at Trent from the Registrar's Office, and at Fleming from the Admissions Office.
- Students enrolled in the Fleming program in their third year may participate in Trent's Early Registration for the fourth year of their Trent program.

Fees

- Students pay community college fees during the Fleming year of their program (consult the Fleming calendar for details on fees) and Trent fees for the other three years.
- Students are also required to pay the appropriate fee to the Ontario College Application Service in Guelph.

Facilities

- Students in the program have access to the library and faculty at Trent

Courses

- The prerequisites for the program consist of at least 10 university credits, with suitable standing towards a Trent Honours degree, including the 100-level introductory course plus at least two additional credits in the student's major.
- For information on courses, check the calendar for the Honours degree requirements in the appropriate discipline.

Further information

- For further information on the program, contact the department of the planned major, the chair of the Museum Studies Committee, Professor Julia Harrison (705) 748-1441, or the senior tutor at Julian Blackburn College, Jackie Tinson (705) 748-1270.

Nursing

The Nursing program leads to a Special Concentration General degree in Nursing from Trent University and a Nursing Diploma from Sir Sandford Fleming College.

It is a full-time program at the Brealey campus of Fleming College, with part-time studies at Trent offered on a concurrent basis.

Application procedures

- Applicants must consult with the academic counsellor at Julian Blackburn College and the Counsellor with the School of Technology and Law at Fleming.
- Application is through the Ontario College Application Service in Guelph. Application forms are available at Trent from the chair(s) of the appropriate departments or programs or from the Registrar's Office and at Fleming from the Admissions Office.
- Applicants must have six OAC credits and two science credits (Human Biology preferred) at grade 11 or 12 level and must meet the admission requirements for Trent (see p. 19)
- Letters will be sent out on March 31, informing students of the result of their application. Those admitted to the program will receive a letter from Fleming. Trent will also send out a letter including information about fees, course registration, etc.

Fees

- Students pay off-campus part-time fees for each credit taken. Students pay 80% of the cost of full tuition to Fleming. Consult the Fleming calendar for details on fees and courses required.

Facilities

- Students are granted all the rights of part-time students at Trent.

Courses

- Students who are in mid-program should consult with the Senior Tutor of Julian Blackburn College about course selection.

Courses at Trent

The following credits are required:

- three credits from *Administration 100H or 105, Administration 101H, Environmental & Resource Science 100, Native Studies 100, 150H, 151H, Psychology 101, Sociology 100, or Women's Studies 100*
- 6 credits, including at least three at the 300-level, from *Anthropology 348, Economics 382H, Native Studies 200, 211, 220, 310 Philosophy 230, Psychology 222H, 240H, 281H, 341H, 343H, 363H, 376H, 381H, 383H, Sociology 230, 241, 343H, 344H, or 363*

Courses at Fleming

The following courses are required for the Nursing Diploma. They also count for the remaining six credits required for the Special Concentration Program in Nursing at Trent:

Year 1

Fall session

Health Theory 1330049, Clinical I 1110429, Biology 1380142, Introduction to the Community 1060106

Winter session

Nursing IIA Defence Mechanisms 1330097, Nursing IIB Stressors 133098, Clinical II 1110431, Clinical II 1110430, Biology II 1380143, and Human Growth and Development 1390002

Year 2

Fall session

Nursing III 1330082, Clinical III 1110433, and Clinical III 1110432

Winter session

Nursing IV 1330052, Clinical IV 1110435, Clinical IV 1110434, The Volunteer in the Community 1110520

Year 3*Fall session*

Nursing V 1330053, Clinical V 1110436, and Clinical V 1110437

Winter session

Nursing and Publishing 1050210, Clinical VI 1110441, Clinical VI 1110442

Year 4*Fall session*

*Nursing Models in Theory and Practice 1330069, Clinical VII 1110443, and
Organizational and Professional Aspects of Nursing 1330054*

Winter session

*Management Strategies (Entrepreneurial Approach) 1260036 and Models and
Theories in Clinical Practice VIII 1110524*

Further information

- For further information on the program and admission procedures, contact Monica Sheridan at Fleming (705) 749-5530 or the senior tutor at Julian Blackburn College, Jackie Tinson (705) 748-1270.

NON-DEGREE CERTIFICATE PROGRAM**Child and Family Studies Post-Diploma Certificate**

The Child and Family Studies Post-Diploma Certificate is a joint program offered by Trent University and Sir Sandford Fleming College for those in the child care field who already possess a college diploma or a university degree. The certificate is offered through part-time studies.

Students must complete six semester courses from Fleming and three credits from Trent. (A half credit from Trent equals a semester course from Fleming.)

There are four units in the program – Child and Family, Resource Teacher, Child Care Administration, and a Special Emphasis – made up of different combinations of courses. The required and elective courses in the program are listed in a Fleming-Trent brochure available at both institutions. Students interested in the program or a Special Emphasis program – suited to particular career development needs – must consult the Academic Counsellor at Trent's Julian Blackburn College, or the Department Administrator for the Community Services Department at Fleming to discuss and plan their course selections. Admission is by letter to the Registrar of either Trent University or Sir Sandford Fleming College.

Admission to the individual courses at Fleming or Trent will be based on the published admission requirements of each institution. See calendars of Fleming and Trent for details.

Each institution has its own course fee schedules and its own academic regulations. Consult the calendars for details.

Students may take courses concurrently at Fleming and Trent towards their certificates. They will be deemed to be students at both institutions. All services normally available to part-time students at either institution will be extended to those taking such courses. Students who can provide evidence that they have completed curriculum equivalent to that covered in a course (or courses), may count a maximum of one Trent credit or two Fleming semester courses toward their certificate. The registrars of Trent and Fleming will determine what constitutes an equivalent course. See the calendars of Trent and Fleming for details on credit transfer.

The Thirty-Seventh Academic Year
2000-2001

TRENT UNIVERSITY



Graduate Studies

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GRADUATE STUDIES CALENDAR

Office of Research and Graduate Studies

Mailing Address: Trent University, 1600 West Bank Drive, Peterborough, Ontario K9J 7B8

Office Location: Suite 101, Otonabee College, 2151 East Bank Drive

Telephone: (705) 748-1245

E-mail: graduate@trentu.ca

Fax: (705) 748-1587

Web: www.trentu.ca/academic/graduate

Dean of Research and Graduate Studies:

To be named (705) 748-1478

Co-ordinator of Research and Graduate Studies:

J. Muldoon (705) 748-1496 research@trentu.ca

Graduate Studies and Research Officer:

S. Carr (705) 748-1346 scarr@trentu.ca

Administrative Secretary:

P. Nichols (705) 748-1245 pnichols@trentu.ca

Brief History of Graduate Studies

Graduate Studies at Trent University began in the 1960s, shortly after the University opened. The first M.A. degree was awarded in 1967, followed by the first Ph.D. in 1968. Since then, over 400 graduate degrees have been conferred, primarily at the Master's level.

Today, Trent offers graduate study in six programs, which are interdisciplinary in scope, with over 60 graduate courses. These programs and courses, along with information on admissions procedures, degree and thesis/dissertation regulations, and fees, are described in detail in the pages which follow.

Administration

The Office of Research and Graduate Studies is responsible for the administration of graduate degree programs offered at Trent University and the coordination and promotion of research and scholarship within the University.

The office is administered by the Dean of Research and Graduate Studies, the Co-ordinator of Research and Graduate Studies, and the Graduate Studies and Research Officer in co-operation with University committees for specific areas.

The Committee on Graduate Studies consists of members of faculty and graduate students from various disciplines, and this body makes executive decisions regarding graduate admissions and the application of general regulations, standards and procedures.

GRADUATE DIARY

Readers are advised that changes may occur to the dates contained in the Graduate Diary. Students will be notified if significant changes occur, and alteration in dates will be published in the Supplement to the Calendar each year. Where a deadline falls on a weekend, the following Monday will apply. (See *University Diary* for overall Calendar and listing of observed holidays)

SPRING SESSION 2000 (May to August)

April	21	Friday	Last possible date to submit four copies of thesis/dissertation to the Office of Research and Graduate Studies for final permanent binding for those wishing to convocate at Spring Convocation
May	1	Monday	Registration for Spring session
June	2	Friday	Spring Convocation
June	30	Friday	Ministry of Training, Colleges and Universities (MTCU, formerly MET) count date Last possible date to submit final copies of thesis/dissertation to Office of Research and Graduate Studies to receive full refund of Spring session fees.

FALL SESSION 2000 (September to December)

September	5	Tuesday	Registration for Fall session
October	10	Tuesday	Last possible date to defend thesis/dissertation to be eligible for Fall session fees to be waived.
October	31	Tuesday	Ministry of Training, Colleges and Universities (MTCU, formerly MET) count date Last possible date to submit final copies of thesis/dissertation to Office of Research and Graduate Studies to receive full refund of Fall session fees.

WINTER SESSION 2001 (January to April)

January	8	Monday	Registration for Winter session
January	12	Friday	Last possible date to defend thesis/dissertation to be eligible for Winter session fees to be waived.
January	31	Wednesday	Last possible date to submit final copies of thesis/dissertation to Office of Research and Graduate Studies to receive full refund of Winter session fees. Ministry of Training, Colleges and Universities (MTCU, formerly MET) count date

SPRING SESSION 2001 (May to August)

April	20	Friday	Last possible date to submit four copies of thesis/dissertation to the Office of Research and Graduate Studies for final permanent binding for those wishing to convocate at Spring Convocation
April	30	Monday	Registration for Spring session
June	1	Friday	Spring Convocation
June	29	Friday	Ministry of Training, Colleges and Universities (MTCU, formerly MET) count date Last possible date to submit final copies of thesis/dissertation to Office of Research and Graduate Studies to receive full refund of Spring session fees.

There will be no exceptions to these deadlines.

GRADUATE ACADEMIC INFORMATION

Programs of Study

Programs of graduate study are introduced at Trent on a selective basis. Each program has been approved by the Appraisals Committee of the Ontario Council on Graduate Studies to ensure that it meets the high standards required for graduate studies in Ontario universities.

The following graduate programs are currently offered at Trent University:

ANTH	Anthropology M.A.
AMOD	Applications of Modelling in the Natural and Social Sciences M.A. or M.Sc.
CSNS	Canadian Studies and Native Studies M.A.
METH	Methodologies for the Study of Western History and Culture M.A.
NAST	Native Studies Ph.D.
WEGP	Watershed Ecosystems M.Sc. or Ph.D.
Trent/Queen's – various Master's and Ph.D. levels	

Trent Undergraduate programs ... leading to ... Trent Graduate Degree programs

Administrative Studies	CSNS
Ancient History & Classics	Trent/Queen's
Anthropology	ANTH
Biochemistry	AMOD
Biology	AMOD, WEGP, Trent/Queen's
Canadian Studies	CSNS
Chemical Physics	AMOD, WEGP, Trent/Queen's
Chemistry	AMOD, WEGP, Trent/Queen's
Comparative Development Studies	CSNS
Computer Studies	AMOD, Trent/Queen's
Cultural Studies	CSNS, METH
Economics	AMOD, CHDS
English Literature	CSNS, METH
Environmental & Resource Studies	AMOD, CSNS, WEGP, Trent/Queen's
Geography	AMOD, CSNS, WEGP, Trent/Queen's
History	CSNS, METH
International Studies	CSNS
Mathematics	AMOD
Modern Languages and Literatures (French)	CSNS, METH
Native Studies	CSNS, NAST
Philosophy	METH
Physics	AMOD, WEGP, Trent/Queens
Political Studies	CSNS
Psychology	AMOD
Sociology	CSNS
Women's Studies	CSNS

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.

Complete information on each program offered under the auspices of the Office of Research and Graduate Studies is presented in the Graduate Programs of Study section of this Calendar and on our web site: www.trentu.ca/academic/graduate. Prospective applicants should note particularly the admission requirements, the fields in which advanced study and research may be undertaken, and the program requirements, in addition to the regulations of the Committee on Graduate Studies which are outlined in this Calendar.

APPLICATION

Initial enquiries concerning graduate study at Trent University may be made directly to the graduate programs. However, applications for admission to graduate studies must be made on the prescribed form and submitted to:

Office of Research and Graduate Studies
Trent University
1600 West Bank Drive
Peterborough, Ontario, Canada K9J 7B8

The deadline for receipt of applications for Fall admission to graduate study is **February 1**. In any case, students are urged to apply at an early date. Late applications from students who meet our minimum admission standards will be considered in the order received when vacancies remain in the chosen program.

Candidates must arrange to have submitted to the Office of Research and Graduate Studies by the appropriate officials of the university or universities they have attended, official transcripts showing the subjects studied and the standing received in all undergraduate and any graduate work undertaken. Normally, applications should be supported by letters of recommendation from at least two faculty members who are familiar with the work of the candidate. Letters of recommendation must be in signed and sealed envelopes.

Applicants must list courses currently being taken and must arrange to have the final standings in them forwarded as soon as the results become available.

Web Application

Application and reference forms should be downloaded from www.trentu.ca/graduate/pdfpkg.html and submitted via regular mail service.

Self-Managed Application

Students may, if they wish, gather documents required for their applications and submit them with the application form. 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.

Application Fee

The application fee (\$50 Canadian in 2000–2001) 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.

ADMISSION

At least an upper second-class standing (B + /77 percent) in the final year at the Honours level in the department or interdisciplinary areas of the program in which the graduate degree is being sought at Trent, or its equivalent, will be required for approval of the admission of candidates for the Master's degree. Candidates who do not meet this requirement should consult the graduate program director for guidance in developing a program which would make them eligible for consideration for admission to a graduate program. They will not become candidates for the Master's degree until their academic standing has been brought up to the Honours level.

Applicants to the Ph.D. program in Native Studies or Watershed Ecosystems should normally have an M.A. or M.Sc. degree respectively.

All applications will be initially examined and evaluated by the appropriate programs. All supporting documents (transcripts, letters of reference, etc.) must be received before any application can receive formal consideration. A program's recommendations for admission will be forwarded to the Office of Research and Graduate Studies whereupon the completed applications will be considered by the Committee on Graduate Studies. The Office of Research and Graduate Studies will officially notify each applicant of the action taken on his or her application.

Official letters of acceptance are only for the academic year indicated. Successful applicants must reply in writing indicating whether or not they accept the offer of

admission. If they are unable to commence studies in the term agreed upon, the programs reserve the right to reconsider their acceptance.

Transfer of Credit

Graduate courses completed at another institution may be accepted in partial fulfillment 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.

Qualifying Year

Applicants whose background is not sufficient for direct entry into a graduate program may be advised to undertake a make-up or Qualifying Year. Successful completion of a Qualifying Year 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.

English Proficiency Requirements

Proficiency in English usage, both written and oral, is essential to pursue graduate studies at Trent University. Applicants whose language of instruction during the undergraduate degree was other than English, must furnish evidence of proficiency in English, prior to admission. Normally, this evidence is an acceptable score on one of the following:

- a) TOEFL – Test of English as a Second Language – A minimum score of 550 is required in the paper-based TOEFL; a minimum score of 213 is required in the computer-based TOEFL; (Educational Testing Service, Princeton, New Jersey 08540, U.S.A.);
- b) CAELA – Carleton Academic English Language Assessment – alternate test only for applicants who do not have access to TOEFL (Carleton University, Ottawa, Ontario, Canada K1S 5B6);
- c) Where the language of instruction in the undergraduate program has been English, the Committee on Graduate Studies is prepared to consider evidence of proficiency in the use of the English language other than that provided by the tests referred to above.

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.

GRADUATE STUDENT FEES

The following fee regulations apply to:

- (i) Canadian citizens within the meaning of the Canadian Citizenship Act;
- (ii) landed immigrants within the meaning of the Immigration Act;
- (iii) dependents of persons admitted to Canada under section 7(1)(a) of the Immigration Act (diplomatic, consular and other representatives of foreign countries, the U.N. and other international agencies, their dependents and suites);
- (iv) dependents of persons admitted under section 7(1)(h) of the Immigration Act for the temporary exercise of the profession, trade or occupation.

Notes and provisos

- In order to convocate, all students (full- and part-time) must have paid at least the minimum Degree Fee. All students must register at the beginning of their program of study and must maintain continuous registration (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 two instalments will be charged a \$50 first instalment fee. Students who fail to pay the second instalment by the 15th of the first month in second term will be charged an additional \$60.

Provided the Degree Fee has been met, pro-rated refunds of tuition, ancillary and other University fees may be available to those who:

- a) withdraw from a graduate program,
- b) complete degree requirements part way 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.

2000 – 2001 Graduate Student Fees

(Based on 1999-2000 fees and subject to revision for 2000-2001)¹

DEGREE FEE - In order to convocate, all graduate students (full- and part-time) must have paid at least the minimum Degree Fee. This will be based on the value of two years' tuition for a full-time Master's student, e.g., the full-time tuition fee value in the year the degree is completed and in the preceding year. [The doctoral degree fee will be based on the value of three years' tuition for a full-time student.] Students who continue study after they have paid the degree fee must continue to pay regular tuition fees in order to remain in program.

Tuition Fees	Full-time	Part-time
Graduate Domestic (Canadians & Permanent Residents) (3 terms)	\$5,304.00	\$2,652.00
Graduate International Student Differential - assessed to non-Canadians and is in addition to the Domestic fee (as above)	\$6,080.00	\$3,040.00
Ancillary Fees		
- Student Health Service	\$ 30.00	\$ 2.70
- Athletics	110.50	55.75
- Graduate Student Activities	27.00	11.00
- College Fee ²	65.00	32.50
- Convocation Fee	11.25	5.70
- TCSA/GSA Drug Plan ³ (1999-2000 rate)	79.50	n/a
Optional		
- Transportation Fees	\$130.00	n/a
Residence		
Townhouse Room or Single Room at Residential Colleges Plus various Meal Plans available	\$3,200.00	(Sept.-April)
Other Fees		
- Application Fee	\$ 50.00	
- Thesis Microfilming	35.00	
- Thesis Binding (per copy)	11.00	
- University Health Insurance Plan for International Students (<i>Mandatory</i>)	\$591.00	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 deposited to the appropriate college.

³ The TCSA/GSA student health (supplemental/prescription) plan is compulsory for full-time students, with an opportunity for opting out and applying for a refund of the fee if covered by alternate insurance.

Degree Completion Fee Payment

Students who complete their program of study, including defence and submission of final copies of thesis/dissertation to the Office of Research and Graduate Studies, by the final submission date published in the Graduate Diary, will receive a refund in accordance with the refund policy of the Office of Research and Graduate Studies. To be eligible for a refund, students must have been registered for the term prior to 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 prior to that date). No defence will be scheduled or held without registration being completed prior to the proposed date of the defence.

Full refunds or cancellation of term fees will be available to students who have paid the Degree Fee and have completed their degree requirements (including oral defence and all necessary revisions) before the MTCU count date for subsequent terms. (See Graduate Diary).

FINANCIAL ASSISTANCE

Financial assistance 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.
- Non-competitive awards and loans from the Ontario Student Assistance Program (OSAP).

All student support received through awards, research or graduate assistantships is taxable according to the federal and provincial tax regulations. Tax will be deducted by Trent's payroll department from any payments made to students for assistantships.

Graduate Teaching Assistantships and Research Assistantships administered by Trent University will be paid through the university payroll office, on a monthly basis. Scholarships awarded for the calendar year are ordinarily paid in three equal instalments in September, January, and May, and may be obtained from the Office of Research and Graduate Studies.

The Office of Research and Graduate Studies prepares a booklet annually for use by Trent students (undergraduates and graduates) planning further study. This includes a list of scholarships available and application deadlines. In the case of major scholarship competitions, students currently registered at Trent must meet an earlier deadline set by the University. Application forms and information on certain external scholarships may be obtained from the Office of Research and Graduate Studies. Full-time students entering a second year of graduate study at Trent, or those planning further study at another university, should demonstrate that they have applied for external funding.

Scholarship Lists via World-Wide Web

The Office of Research and Graduate Studies' scholarships listing is available at Trent's web site www.trentu.ca/academic/graduate, along with direct links to granting councils and other agencies. Please note that similar financial aid and/or awards listings are also available at other university sites on the internet.

Graduate Scholarships/Fellowships – External

Commonwealth Scholarship and Fellowship Plan

The Commonwealth Plan provides opportunities for Commonwealth students to pursue advanced studies in other Commonwealth countries. The fellowships are awarded to graduates of recognized universities for a period of two academic years and the intervening Summer, and are intended to cover the holder's travel, living, and study expenses during the period of tenure. Application forms and full information concerning details of the award may be obtained from the Canadian Scholarship and Fellowship Plan, c/o Canadian Bureau for International Education, 85 Albert Street, Suite 1400, Ottawa, Ontario K1P 5N1, or through the Canadian high commissioner in Commonwealth countries. Persons intending to apply are advised to enquire not later than September, approximately one year prior to the date of tenure.

Natural Sciences and Engineering Research Council (NSERC) Awards

Postgraduate scholarships from the Natural Sciences and Engineering Research Council (NSERC) are tenable in departments offering graduate studies in science. These awards are offered to assist students in 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. The scholarships are open to Canadian citizens or permanent residents and are awarded on the basis of high scholastic achievement and evidence of capacity to do research. For further information write to: Postgraduate Scholarships Officer, Natural Sciences and Engineering Research Council of Canada, Constitution Square, Tower II, 350 Albert Street, Ottawa, Ontario K1A 1H5.

Social Sciences and Humanities Research Council (SSHRC) Doctoral Fellowships

Approximately 550 of these fellowships are offered each year to Canadian citizens or persons who have obtained landed immigrant status in Canada by December 1. The Fellowships program aims to develop research skills and assist in the training of highly-qualified academic personnel by supporting students who demonstrate a high standard of scholarly achievement in undergraduate and graduate studies in the social sciences and humanities. The fellowships are tenable at any recognized university in Canada or abroad. Deadline: December. For further information write to: Postgraduate Scholarships Officer, Social Sciences and Humanities Research Council of Canada, 350 Albert Street, P. O. Box 1610 Ottawa, Ontario K1P 6G4.

Ontario Graduate Scholarships (OGS)

The Government of Ontario offers up to 1,300 Ontario Graduate Scholarships per year which are tenable at the Ontario university of the student's choice. The awards are tenable in all disciplines and the scholars must have a high level of academic achievement. The awards are intended primarily for Canadian citizens as well as those who hold permanent resident status at the time of application; however, up to 60 awards may be made to students who, by the application deadline, have been admitted to Canada as visitors with student authorization. Awards will be for two or three consecutive terms; one-term awards will not be made. Application deadline is mid November. All eligible candidates who are interested in studying at Trent are urged to apply for one of these awards. For further information write to: Student Support Branch, Ontario Ministry of Training, Colleges and Universities, P.O. Box 4500, 189 Red River Road, 4th Floor, Thunder Bay, Ontario P7H 6G9.

Graduate Scholarships/Awards – Internal

Trent University offers a number of graduate scholarships, awards and bursaries. All new students entering the University are automatically considered for internal awards. No separate application is required.

All University scholarships/awards may be held in conjunction with awards from outside agencies when conditions permit.

Graduate Teaching Assistantships (GTAs)

The Office of Research and Graduate Studies, acting on the recommendations of the Graduate Program Directors, awards a number of assistantships to full-time graduate students each year. In return for the stipend involved, the students are required to work up to 10 hours per week, 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.

Trent University Graduate Entrance Awards

Approximately 15 awards are made annually to eligible students entering the first year of a full-time graduate degree program at Trent University. The awards are valued at \$300 each and are intended for students with an average of A- (80%) or better in their last two years of study.

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 fulfil all scholarship conditions applicable to candidates in the open OGS completion. 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 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. Application forms are available from the Office of Research and Graduate Studies. Normal application deadline is February 1.

The Governor-General's Academic Gold Medal

The Governor-General's Gold Medal will be awarded to the graduate student who achieves the highest academic standing among those who are convocating. The medal will be awarded on the recommendation of the Committee on Graduate Studies based on nominations from the graduate programs. The medal will be presented each year at Spring Convocation.

Richard Ivey Foundation Graduate Scholarships

These scholarships, established by the Richard Ivey Foundation, are for support of graduate students conducting thesis research on terrestrial ecology at the Oliver Ecological Centre of Trent University.

The 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

This scholarship, a gift from the Estate of Eugene Basil Kuzmin of Bobcaygeon, is awarded to a deserving student in any graduate degree program.

Native Studies Ph.D. Scholarships

These scholarships are available to students with high academic standing in the Native Studies Ph.D. program. Students will automatically be considered for these scholarships upon application to the program.

Petersen Burfield Family Graduate Award

This award has been established in honour of the late Margaret (Betty) Burfield. It is available to graduate students in anthropology. OSOTF guidelines on p. 46 apply.

The French American Charitable Trust Scholarship

This scholarship, established by a gift from The French American Charitable Trust in Bermuda, is awarded to a student enrolled in the Watershed Ecosystems Ph.D. program.

The David and Joyce Woods Graduate Scholarship

This scholarship, to honour David M. Woods, chairman of the Board of Governors of Trent University from 1975 to 1980, and his wife, Joyce Woods, has been established by their children and friends and is awarded to a student enrolled in the Watershed Ecosystems master's program. This was the first graduate scholarship to be established at the University.

Graduate Bursaries

Bursary funds are intended to assist with educational costs and are administered by the Financial Aid Office. Applications forms are available from the Financial Aid Office or the Office of Research and Graduate Studies. Deadlines may vary.

Ontario Student Opportunity Trust Fund (OSOTF)

In 1996-97 the Province of Ontario established the Ontario Student Opportunity Trust Fund. 50 % of this fund is provided by the Province and 50 % from fundraising by the University. The trust fund represents an endowment fund. Annual proceeds from investment earnings are available in the form of bursaries to Ontario residents enrolled full-time, part-time or as graduate students, who can prove financial need and whose academic progress is satisfactory. In some instances, academic excellence as well as financial need will be the determining factor.

Students must fall into one of the following categories:

- 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
- Student's spouse has been resident 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
- Student's parents, step-parents, legal guardians, or official sponsors have been resident in Ontario for at least 12 months in a row up to the beginning of their current study period.

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 residents 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, Philosophy and English. OSTOF guidelines apply.

Tuition Bursaries

Bursaries to assist with partial tuition fees are available to new and continuing graduate students who are Ontario residents, with demonstrated need. Bursaries for successful applicants will be deposited directly to students' accounts to be applied directly to tuition fees.

AMOD Graduate Bursary (Modelling)

These bursaries are available to assist graduate students in the Applications of Modelling in the Natural and Social Sciences M.A./M.Sc. Program. They are based on demonstrated financial need and satisfactory academic achievement. OSOTF guidelines apply.

Anthropology – Graduate Students' Bursary

Graduate faculty and friends of the Anthropology department established this bursary to assist first and second year graduate students in their studies and/or thesis research. The bursaries will be awarded based on financial need and satisfactory academic achievement. OSOTF guidelines apply.

Jon K. Grant Graduate Bursary

This bursary has been 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. This bursary will be awarded to a student in the second year of the Master's Program in Canadian Studies and Native Studies based on satisfactory academic achievement and financial need. Distinction in cultural, athletic or other community activities may also be considered. OSOTF guidelines on p. 46 apply.

Scotia Bank Graduate Bursary

Awarded annually to a full-time graduate student in any year with proven financial need and satisfactory academic standing. OSOTF guidelines apply.

The ABS Bennett Bursary

This bursary is awarded annually to a female graduate student who has demonstrated leadership and involvement in her community. Applicants must demonstrate financial need and satisfactory academic achievement. OSOTF guidelines apply.

William Thompson Graduate Bursary

This bursary, a bequest from the estate of the late William Thompson (1891-1978) of Westwood, Ontario, is awarded annually to a student registered in a graduate program. This bursary will be awarded based on financial need and satisfactory academic progress. OSOTF guidelines apply.

MASTER'S AND DOCTORAL DEGREE REGULATIONS

Registration

By registering and paying fees, students assume responsibility for understanding and abiding by the regulations and procedures included in this Calendar. Moreover, it is the student's responsibility to establish and maintain communication with their thesis/dissertation supervisor.

Students whose applications for admission to graduate study have been approved for full- (or part-) time study should present themselves for registration on the dates recorded in the Calendar. Graduate students, full- or part-time, proceeding to a degree must maintain continuous registration in each successive term from the time of initial admission until the end of term during which the requirements for the degree are completed.

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 and Research Officer.

A personal data form must be completed at registration and revised in subsequent years.

Failure to Register

Graduate students who fail to register for any term (October 31 for Fall term; January 31 for Winter; or June 30 for Spring) and have not been granted an official leave of absence, will be considered to have withdrawn voluntarily from their program.

For subsequent reinstatement, the student must make application to the Office of Research and Graduate Studies 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 be either full-time, part-time, or inactive.

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 himself/herself as a full-time graduate student.

Note:

- 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 and Research 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 and Research 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

Graduate students requesting "part-time" status:

- 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
- must be those unable to attend on a full-time basis because of documented circumstances or responsibilities (e.g., child care, disability).
- may not register in more than one full-credit course or equivalent per year.
- 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.

Inactive/Leave of Absence

Students who have valid reasons for not registering for a term may apply for exemption by:

- writing to the Graduate Studies and Research Officer stating the reasons for an exemption; and
- requesting a statement from their thesis/dissertation supervisor that they 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 and Research Officer, must confirm that no thesis work of any kind will be pursued during the term in question. Exemptions, if granted, will be for one term only.

A leave of absence, if granted, will be for one term only and will only be granted to a maximum of one year, beyond which the student will be withdrawn from their program of study. The student will be required to re-apply 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 prior to that date).

Requests for a leave of absence will only become effective in the following academic term except under unforeseen circumstances. Requests will not be approved retroactively.

Residence Requirements

Full-time Master's degree candidates are required to spend a *minimum* of one year on campus as full-time students after completion of an Honours program. Full-time Doctoral degree candidates are required to spend a *minimum* of two years on campus as full-time students after completion of a Master's program. For part-time graduate students two years of part-time study shall be deemed equivalent to one year of full-time study.

Time Limits

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.

Extension of Time Limits

No extensions of the prescribed time limits will be granted except under extraordinary circumstances. In such instances, a time limit extension request form must be completed by the student in consultation with the supervisor and submitted to the Graduate Program Director. If the director supports the request, a recommendation will be referred to the Dean of Research and Graduate Studies for approval.

Withdrawal from the University

A student who wishes to withdraw from the University must send a signed, dated letter to the Office of Research and Graduate Studies, copied to the Graduate Program Director and the thesis/dissertation supervisor.

Once the Office of Research and Graduate Studies is in receipt of the letter of withdrawal, fees will be adjusted accordingly.

A student who withdraws without providing a letter will not be eligible for any refund of fees nor exemption from fees in the event that fees have not been paid at the time of withdrawal.

Students who withdraw or change their status to part-time before the end of term will be required to repay any scholarship funds previously paid to the student.

The Trent Graduate Student Identification card must be returned to the Office of Research and Graduate Studies at the time of withdrawal.

College Affiliation

Every student is required to have a college affiliation at Trent.

Full-time graduate students may request to be assigned to one of Trent's residential colleges. 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.

Residence Accommodation

A limited number of residence spaces are reserved for first-year graduate students in predominantly undergraduate residences at Trent's colleges. The time of occupancy is limited to the undergraduate academic year. Graduate room allocations are made by the Office of Student Affairs. Requests for residence accommodation must be made by early July by completion of a college application form and payment of a residence deposit.

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 two other members of the program, 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 and Research 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 and Research 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 should be communicated to the Office of Research and Graduate Studies before the supervisor leaves the University.

Guidelines for graduate programs, graduate students, faculty and the Committee on Graduate Studies are included in the "Graduate Students' Handbook," available from the Office of Research and Graduate Studies.

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.

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. (See deadlines for submission of completed thesis/dissertation noted in the Graduate Diary.)

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.

Adding and Dropping Courses

The addition and/or deletion of one or more individual courses by a registered graduate student must be made in writing, approved and authorized by the Graduate Program Director, and forwarded to the Graduate Studies and Research Officer.

Audit Policy for Graduate Students

Upon the recommendation of his/her supervisor, and with the permission of the Graduate Studies and Research 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 percent). Since June 1982, the following grading scheme has been in effect:

A+ = 100-90	B+ = 79-77	
A = 89-85	B = 76-73	F = 69-0
A- = 84-80	B- = 72-70	

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 and Research 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.

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 Misconduct

The University policy on academic misconduct is outlined in this Calendar.

Language Requirement

Some programs may require a reading knowledge of a language other than English. Consult the program listings for specific language requirements. (See also English Proficiency Requirements)

Grade Reports

Graduate Program Directors must submit a grade report on each student at the end of every academic year indicating grades received in course work. A copy of the grade report will be mailed to the student by the Graduate Studies and Research Officer.

Unsatisfactory Work

On the recommendation of the program, approved by the Dean of Research and Graduate Studies, a student whose work is unsatisfactory may at any time be required to withdraw from the University.

Appeals

Appeals procedures for graduate students parallel those established for undergraduates. (See undergraduate section of Calendar.) 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 and Research Officer. A review is accomplished by the impartial body with the best knowledge of the particular problem, e.g., the Graduate Program Director, the Committee on Graduate Studies, or, in exceptional cases, the Special Appeals Committee.

Ontario Visiting Graduate Student Plan

Under certain circumstances it is permissible for a student admitted to a degree program and registered at one Ontario university to enrol in approved credit courses at another university. Credit will be granted only if written permission is received from the Graduate Dean and the Graduate Program Director prior to registration for the course work. Application forms are available in the Office of Research and Graduate Studies.

PRINCIPLES GOVERNING SUBMISSION AND EXAMINATION OF THESES/DISSERTATIONS

1. Submission of thesis/dissertation for examination

- 1.1 Depending on program requirements at least four copies of the thesis/dissertation, typed in conformity with Appendix VI of the current "Graduate Students' Handbook," shall be deposited with the Graduate Program Director.
- 1.2 Supervisory Committee members shall review a complete typed version of the thesis/dissertation and send a signed "Pre-Exam" form to the Graduate Program Director verifying that the thesis/dissertation is of sufficient quality to proceed to formal examination.

2. Examining committee

- 2.1 After the supervisory committee has confirmed that the thesis/dissertation may proceed to examination, the supervisor identifies three potential external examiners to participate in the thesis examination and defence. The Examining Committee is named by the Graduate Program Director, in consultation with the Dean of Research and Graduate Studies, and the date, place and time of the defence determined.
- 2.2 The Examining Committee consists of a chair plus three-five members, of whom at least one must be from outside the university.
- 2.3 The candidate's supervisor is a member of the Examining Committee and any or all members of the Supervisory Committee may be named as members of the Examining Committee, subject to the policy of the program concerned.
- 2.4 The external examiner must not have any affiliation with the university or the candidate that might be construed as creating a conflict of interest.

3. Thesis/dissertation examination

- 3.1 Copies of the thesis/dissertation shall be distributed amongst the Examining Committee by the Graduate Program Director at least three weeks before the scheduled date of the oral, along with a covering letter from the Graduate Dean explaining the status of the thesis and the range of options for its disposition.
- 3.2 A "Pre-Oral Defence" form is supplied on which each examiner should verify whether they recommend that the oral examination should proceed. These forms must be returned to the Graduate Program Director at least one week before the scheduled date of the oral.
- 3.3 A negative response by any member of the Examining Committee will result in cancellation of the defence and return of the thesis to the student and supervisory committee.

4. Defence

- 4.1 The thesis/dissertation will be defended by the candidate in an oral examination before the Examining Committee. In the examination candidates will be required to give evidence that they have a thorough knowledge of the field in which they have been working.
- 4.2 The defence shall be scheduled within a period of no fewer than three, and no more than six, weeks from the date of approval of the submitted thesis by all members of the Supervisory Committee (see 1.2).
- 4.3 The Examining Committee, and the defence examination, will be chaired by a person appointed by the Graduate Program Director.
- 4.4 A quorum consists of the external and two other members of the examining committee, not including the chair.
- 4.5 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.
- 4.6 Subject to the policy of individual graduate programs, any member of the university is free to attend an oral thesis defence examination.
- 4.7 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.
- 4.8 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.
- 4.9 It is the responsibility of the chair to see that a report on the examination is prepared before the committee adjourns.
- 4.10 The voting is to be based on a simple majority.

- 4.11 Four recommendations are open to the Examining Committee:
 - (i) the thesis is approved as it stands, or
 - (ii) the thesis is approved provided certain minor or major revisions are made, or
 - (iii) 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
 - (iv) the thesis is not approved.
- 4.12 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.
- 4.13 If the Examining Committee is not prepared to reach a decision concerning the thesis at the time of the thesis defence, it is the responsibility of the chair to determine what additional information is required by the committee to reach a decision, to arrange to obtain this information for the committee, and to call another meeting of the committee as soon as the required information is available. It is also the chair's responsibility to inform the candidate that the decision is pending.

5. Final submission

- 5.1 The Graduate Program Director, in consultation with the thesis supervisor, must verify that appropriate corrections have been made, and then submit a summary report of the thesis defence and examination to the Office of Research and Graduate Studies.
- 5.2 An approved thesis/dissertation may be submitted at any time following the oral defence. However, for candidates wishing to graduate at convocation, deadline dates are printed in the Graduate Diary section of the current Graduate Studies Calendar. 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 and Research Officer, Suite 101, Otonabee College. At this point, the thesis should be in its final typed version, but only the original copy should be submitted. The Graduate Studies and Research Officer checks through the thesis/dissertation with regard to format and then seeks final approval from the Committee on Graduate Studies. If there are any discrepancies in format, the student will be contacted by the Graduate Studies and Research Officer.
- 5.4 After the thesis/dissertation has been formally approved, the candidate submits the required copies and pays the cost for binding and microfilming.

6. Microfilming of thesis/dissertation

- 6.1 When the thesis is submitted, the candidate is required to complete a "Non-Exclusive Licence to Reproduce Theses/Dissertations" (Form NL/BN91 [90-09]). This gives consent for the thesis to be microfilmed by the National Library of Canada. There is a fee for this service and the candidate is billed for this at the time the final approved thesis/dissertation is submitted.

7. Binding of thesis/dissertation

- 7.1 Theses must be bound in Trent green with front cover and spine writing in gold. Binding arrangements are made through the Office of Research and Graduate Studies.

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."

Notes and provisos

- 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 from the Office of Research and Graduate Studies at Trent University includes a detailed guide on the preparation of theses/dissertations.

International Graduate 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 student authorizations and proceeding to a graduate school in the province of Ontario are restricted in most cases to teaching assistantships involving no more than 10 paid hours per week. Eligibility for most scholarships and teaching assistantships from university and Canadian sources is restricted to Canadian citizens or permanent residents. However, as noted in the previous section, a small number of Ontario Graduate Scholarships are available to non-Canadian students.

Therefore if you are not a Canadian citizen or permanent resident, you will not be eligible for most of the awards. On the other hand, to obtain permanent resident status, a student who is not resident in Canada must have long range plans which include an intention to settle permanently in Canada. If the Canadian immigration authorities refuse permanent resident status, it is then extremely difficult to obtain a student authorization as an alternative means of permission to study in Canada.

Entry into Canada without either status will result in a deportation order, and if the deportation order is not successfully appealed, any further application for landed immigrant status will almost certainly be denied. Application for such status therefore should not be made simply in the hope of obtaining more fellowship support.

Note:

Students who have been admitted to Canada on student authorizations must obtain a work permit from the Department of Immigration before taking on any type of work, other than at the University, for which they receive payment.

Graduate 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). It has four elected officers (president, vice-president, treasurer and secretary) who organize social and informal academic events. Elections take place yearly. Graduate students are also represented on the University Senate, and the Graduate Studies, Animal Care, Computer Services, Library Services, Nature Areas, Research (NSERC), Research (SSHRC), Special Appeals and Teaching Awards committees. Those interested in serving either on the GSA executive or on one of the committees should contact the current GSA President.

The GSA publishes a newsletter throughout the year passing on information of direct concern to graduate students both within the university and from other graduate associations or from the National Union of Students (NUS) newsletters. As well as organizing social events such as wine and cheese parties, Christmas parties, and end-of-the-year banquets, the GSA presents informal slide and talk shows presenting current research by graduate students or faculty at Trent.

Conference travel allowances are made available through the GSA to qualifying graduate students on a first come/first served basis.

The aim of these programs is to provide opportunities for graduate students to communicate with each other, and with the entire University community about issues and problems of particular concern to graduate students.

The current executive welcomes the interest and assistance of all graduate 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 write to:

The Office of Research and Graduate Studies

Trent University, Peterborough, Ontario, Canada K9J 7B8

Telephone: (705) 748-1245

E-mail: graduate@trentu.ca

Web: www.trentu.ca/academic/graduate

GRADUATE PROGRAMS OF STUDY

ANTHROPOLOGY

Telephone: (705) 748-1325

e-mail: anthro@trentu.ca

Fax: (705) 748-1613

Web: www.trentu.ca/anthropology

The M.A. program in Anthropology is focused on the fields of cultural anthropology, archaeology, art, and biological anthropology. Areas of concentration within the program include: 1) the transformation of indigenous social, political, and economic institutions; problems associated with health and health care, ethnicity, gender, nationalism, and class; contemporary Western business and educational institutions, including museums; anthropological method and theory; and the anthropology of tourism. Regions of particular emphasis include Africa, South Asia, the Himalayas, the Pacific, and the industrialized West; 2) the paleoecology, prehistory and ethnohistory of Canada, Mesoamerica, and South America; Old World prehistory; archaeological method and theory; and Canadian historical archaeology; 3) the cross-cultural relationships between and among art (broadly defined), architecture, social organization, gender, politics, values, religion, economy, and technology; 4) biological anthropology with an emphasis on osteology and paleopathology. Other fields of interest can occasionally be accommodated in collaboration with faculty, e.g., medical anthropology and linguistics.

Students are required to complete three courses, to demonstrate capacity to read in the language or languages relevant to their field of research, and to research and write a thesis on an approved topic within one of the fields and areas listed above. They may be required to take an undergraduate course deemed necessary to their program of graduate study, e.g., *AN 300*, *AN 309*, *AN 351*. Students are subject to a review of their performance at the end of each academic year.

Graduate Program Director: S. M. Jamieson

Faculty and Research Areas

Anthropology:

J.D. Harrison, B.A. (SASKATCHEWAN), M.A. (CALGARY), D.Phil. (OXFORD): *anthropology of institutions, public events, festivals and tourism, cross-cultural representation, museum studies, ethnology, Native North America, South Pacific, contemporary West*; **P.F. Healy**, B.A. (CALIFORNIA-BERKELEY), M.A., Ph.D. (HARVARD): *archaeology, New World archaeology, Mesoamerica and lower Central America, and the Caribbean*; **H.S. Helmuth**, D.Sc., DR.HABIL. (KIEL): *physical anthropology, osteology: Germany, North America, Maya*; **S.J. Hepburn**, B.A. (CALGARY), B.A. (CAMBRIDGE), M.A. (McGILL), Ph.D. (CORNELL): *religion, tourism, anthropology of medicine, death, South Asia, Nepal*; **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. Meneley**, B.A. (McGILL), Ph.D. (NEW YORK): *gender, consumption, exchange, anthropology of emotions, politics of aesthetics, religion, Middle East, Yemen*; **J.S. Solway**, B.A. (OAKLAND), M.A. (TORONTO), Ph.D. (TORONTO): *culture and political economy, development, identity, Southern Africa*; **M.J. Tamplin**, B.A. (TORONTO), M.A. (LONDON), Ph.D. (ARIZONA): *paleoecology, typology, computer applications, Boreal Forest, Europe, Africa*; **J.R. Topic**, M.A., Ph.D. (HARVARD): *archaeology, ethnohistory, complex societies, spatial analysis, Peru, South America*; **J.M. Vastokas**, M.A. (TORONTO), Ph.D. (COLUMBIA): *anthropology of art, material culture, art and architecture of Europe and the Americas; Northwest Coast, Arctic, Northeast*.

Conjoint Professors

T.J. Brasser, Ph.D. (LEIDEN): *Aboriginal art and architecture, Plains and Northeast North America, Saami of Northern Europe, Siberia*; **D.M. Pendergast**, B.A. (CALIFORNIA-BERKELEY), Ph.D. (UCLA): *Maya archaeology- Belize, Caribbean and historic archaeology, museology*; **H. Saradi-Mendelovici**, B.A. (ATHENS), M.A., Ph.D. (MONTREAL): *ancient Greek, Byzantine history and art*; **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; C.D. White, M.A. (TRENT), Ph.D. (TORONTO): osteology and odontology, bone chemistry, paleodiet and nutrition, palaeopathology, nutritional anthropology, medical anthropology, evolutionary theory. Mesoamerica/Egypt/Nubia, Northeastern North America; J.V. Wright, B.A., M.A. (TORONTO), Ph.D. (WISCONSIN): culture history and culture process, communicating archaeological information to the general public

Regulations

The general regulations and requirements of Trent University for the M.A. degree apply to graduate study in Anthropology. Students are admitted into the program once a year for studies beginning in the following September. Applicants to the program are expected to have a grounding in appropriate research methodology. Normally, candidates who have fulfilled the admission requirements will be required to take at least three graduate courses, including *Anthropology 515* and normally including *Anthropology 500* or *510*. In consultation with their supervisors students select and research a problem in their area of interest, and present a colloquium and write a thesis on this research. Candidates shall maintain at least a second class standing in their work and shall pass an oral examination in defence of their thesis. There is no formal language requirement but the supervisory committee will require each student to demonstrate (to the satisfaction of the supervisor) an acceptable capacity to read in a language or languages considered necessary for purposes of research. In addition, students may be expected to show adequate background knowledge in a related discipline, e.g. art history. For further information write to the Graduate Program Director of the Anthropology department.

External Funding

All students contemplating application to the M.A. program in Anthropology at Trent are urged to apply for an Ontario Graduate Scholarship as well as to additional external (non-University) funding agencies. Applications for OGS materials are available from the Office of Research and Graduate Studies at Trent University.

Financial Support

All students admitted will be placed in competition for Graduate Teaching Assistantships, which involve a maximum of four terms, normally spanning two consecutive undergraduate academic years, of teaching and related work within the department. Most eligible students receive some form of financial assistance.

COURSES AVAILABLE TO GRADUATE STUDENTS: Anthropology (ANTH)

Note: Not all courses are available every year.

ANTH 500 – Method and theory in cultural anthropology

(Normally required of Cultural Anthropology students) An examination and evaluation of major theories and methods and their relationship to problems in ethnographic analysis and interpretation. Emphasis will be placed on recent advances and their implications for the development of cultural anthropology. *Staff*

ANTH 510 – Method and theory in archaeology

(Normally required of Archaeology students) An examination and evaluation of major theories and methods and their relationship to problems in archaeological analysis and interpretation. Emphasis will be placed on recent advances and their implications for the development of archaeology. *Staff*

ANTH 515 – Advanced research seminar

(Required of first and second year students). *Staff*

ANTH 520 – Selected themes in Canadian archaeology

Research-oriented investigations into the archaeological record of Central, Eastern and Northern Canada and adjacent areas. Topics will vary according to interests of staff and students, but will include a review and analysis of regional methodological and theoretical approaches. *S.M. Jamieson, M.J. Tamplin*

ANTH 525 – Problems in North American archaeology

Research topics will vary according to interests of staff and students, but will focus on the culture history and process of a selected region. Emphasis will be placed upon methodological and theoretical approaches. *S.M. Jamieson, M.J. Tamplin*

ANTH 530 – Problems in Mesoamerican archaeology

Review of the long and variegated history of human occupation in Mexico and Central America. Problems include the rise, the structure, and the fall of complex societies, cultural ecology, the nature of cultural frontiers, and other related issues of Mesoamerican prehistory. *P.F. Healy*

ANTH 540 – South American archaeology and ethnohistory

South American prehistory and ethnohistory with a focus on the development of social, political, and economic organization in a wide variety of environments. Factors such as warfare, trade, migration, craft production, subsistence, ritual and ideology are considered. Emphasis is given to Central Andean civilizations, though other regions are considered. *J.R. Topic*

ANTH 545 – Critical issues in ethnography

An exploration of critical issues and historical and contemporary trends in modes of ethnographic analysis. Topics will primarily, but not exclusively, focus on one of: development, visual representation, gender, institutions in complex societies, or tourism. Particular themes will vary according to student and faculty interests. *J.D. Harrison, S.J. Hepburn, J.S. Solway*

ANTH 555 – Problems in Old World archaeology

Archaeological data and approaches from the Old World are employed to explore cultural problems common to all areas of the world. Research topics will vary from year to year. *M.J. Tamplin*

ANTH 560 – Paleoecology of the Americas

This course examines the biology and ecology of prehistoric populations in various environmental and cultural settings. *H.S. Helmuth and M.J. Tamplin*

ANTH 575 – Word and image in cross-cultural perspective

An exploration of the relationship between visual and verbal systems of communication from the Upper Paleolithic to the postmodern West. The course aims to delineate and to account for cross-cultural similarities and/or differences in especially visual narratives, whether in meaning or function these be mythical, historical, legendary, biographical, liturgical, self-expressive, or propagandistic. *J.M. Vastokas*

ANTH 580 – Anthropology of art, architecture, and material culture

The development, character and interpretation of prehistoric, historic and contemporary art, architecture and everyday objects in cross-cultural perspective from the point of view of symbolic, semiotic and dialogic anthropology. Emphasis varies from year to year but fields of most interest include aboriginal North America, the circumpolar northern hemisphere, rock art, and the industrialized West. *J.M. Vastokas*

ANTH 585 – Prehistoric art of Palaeolithic Europe and the circumpolar zone

A survey and critical re-examination of existing knowledge and understanding of the forms, functions, meanings, chronology, and interrelationships of the cave (parietal), rock (rupestral), and mobiliary (small scale, portable) art of Palaeolithic and Mesolithic Western Europe, Scandinavia, Finland, northern Russia, Siberia, the northernmost Pacific rim, including the coasts of northeast Asia and northwestern North America, Alaska, the Canadian arctic and subarctic, and Greenland. *J.M. Vastokas*

ANTH 590

Special topics. *Staff*

APPLICATIONS OF MODELLING IN THE NATURAL AND SOCIAL SCIENCES

Telephone: (705) 748-1225

E-mail: aminss@trentu.ca

Fax: (705) 748-1652

Web: www.trentu.ca/aminss

This interdisciplinary graduate program 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 Master's program in the Applications of Modelling in the Natural and Social Sciences 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 at another institution.

Students are involved both in thesis research and coursework in their "home" discipline, and in interdisciplinary study. They carry out coursework in the foundations and methods of quantitative modelling and participate in an interdisciplinary seminar. 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. Students are also expected to attend the regular research seminars organized by the program and by their home disciplines.

Specific Admission Requirements

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). Prior to 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 such as BASIC or FORTRAN. 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.

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. Canadian candidates are encouraged to apply, before December, for national and provincial scholarships (NSERC and OGS awards). The program also provides funds to cover minor overhead research costs such as laboratory and computing supplies, equipment and some conference travel.

Regulations

The general regulations and requirements of Trent University for the M.Sc. or M.A. degree apply to this graduate program. 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.)

Course work counts for about one-third of the work towards the degree. A grade of at least B- (70) must be obtained in each of the graduate courses. 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 coursework is normally completed in two terms, allowing the Summer sessions and the entire second year to be devoted to uninterrupted research. The student is also required to attend a regular seminar on modelling and to make one presentation each year.

Faculty and Research Areas

Graduate Program Director J.D.A. Parker, B.A. (SIMON FRASER), M.A., Ph.D. (YORK)

Faculty

Chemistry:

H. Hintelmann, Ph.D. (HAMBURG): *transport of contaminates*; **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*; **A.M. Zobel**, M.Sc., Ph.D. (WARSAW): *plant phenolic compounds*

Computer Studies:

B. Domzy, Ph.D. (WATERLOO): *wireless networks*; **R.T. Hurley**, M.Sc. (NEW BRUNSWICK), Ph.D. (WATERLOO): *distributed systems*; **J.W. Jury**, M.Sc., Ph.D. (TORONTO): *statistical process control*

Economics:

B. Cater, Ph.D. (YORK): *health and safety*; **D.C.A. Curtis**, M.A. (QUEEN'S), Ph.D. (MCGILL): *modelling economic change*; **K.S.R. Murthy** (Emeritus), M.Sc. (KARNATAK), M.A. (DELHI, WESTERN), Ph.D. (WESTERN): *econometric modelling and forecasting*

Environmental & Resource Studies:

W.F.J. Evans, M.A., Ph.D. (SASKATCHEWAN), F.R.S.C.: *ozone depletion, global warming*

Geography:

J.G. Cogley, M.A. (OXFORD), M.Sc., Ph.D. (MCMASTER): *climatic and hydrological modelling*; **P. Lafleur**, M.Sc. (TRENT), Ph.D. (MCMASTER): *boundary-layer climatology*; **C.L. McKenna Neuman**, Ph.D. (QUEEN'S): *wind erosion*; **R. Ponce-Hernandez**, M.Sc. (CHAPINGO), Ph.D. (OXFORD): *modelling applications of geographical information systems and remote sensing*

Mathematics:

K. Abdella, Ph.D. (WESTERN): *atmospheric modelling*; **B. Zhou**, Ph.D. (SOUTH CAROLINA): *combinatorics and graph theory*

Physics:

P. Davis [Conjunct], Ph.D. (TORONTO): *transport of environmental contaminants*; **J.W. Jury**, M.Sc., Ph.D. (TORONTO): *subatomic physics*; **A.J. Slavin**, M.Sc., (TORONTO), Ph.D. (CAMBRIDGE): *structure and reactivity of solid surfaces*

Psychology:

J.D.A. Parker, B.A. (SIMON FRASER), M.A., Ph.D. (YORK): *stress and coping, personality and psychopathology*; **G.T. Reker**, B.A. (MCMASTER), M.A.Sc., Ph.D. (WATERLOO): *measures of personal meaning in the elderly*; **E. Scharfe**, Ph.D. (SIMON FRASER): *attachment across the life span*; **C.T. Smith**, Ph.D. (WATERLOO): *relationship between sleep and memory*

Conjunct Professor

P.A. Davis, M.Sc., Ph.D. (TORONTO) (Atomic Energy of Canada Limited); **K. De'Bell**, M.Sc., Ph.D. (LONDON): *modelling phase transitions, thin films*; **G. Sitarenios**, Ph.D. (YORK): *psychological testing instruments* (Multi-Health Systems, Inc.); **L. Szirmay** (Emeritus), M.S. (DETROIT), M.E. (IOWA), Ph.D. (DENVER): *separation of gaseous pollutants*; **A. Zobel**, M.Sc., Ph.D. (WARSAW): *phenolic compounds in plant cells as bioindicators of environmental stress* (TRENT).

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). Prerequisites: 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. Prerequisites: One university course in each of calculus (differential and integral) and statistics, and some ability in a computational computer language such as BASIC and FORTRAN.

AMOD 562H – Advanced topics in modelling

Prerequisite: *AMOD 561H* or equivalent.

AMOD 571H – Mathematical aspects of modelling

Various mathematical approaches to modelling are illustrated, the emphasis being on the methods rather than on the mathematical detail. The course discusses such topics as stochastic and deterministic modelling, dimensional analysis and nonlinear systems. Prerequisite: As for *AMOD 561H*, plus a university calculus course in differential equations.

AMOD 572H – Special topics in the mathematics of modelling

Prerequisite: *AMOD 571H* or equivalent.

AMOD 582H – Advanced topics in computational aspects of modelling

Prerequisites: *AMOD 561H*, and *AMOD 551H* or *AMOD 571H*, or equivalent.

AMOD 590 – Seminar on applications of modelling

Each student in the program makes one presentation per year on his/her research, with emphasis on the assumptions, methodology and analysis of the models used. These presentations are complemented by contributions from invited speakers and core faculty. This seminar course will be given a pass/fail grade every year, based on the presentations, attendance and participation by the student. A student's presentation will be attended and graded by her/his supervisory committee. Attendance is compulsory.

Students are normally required to take *AMOD 501H*, *502H*, *561H*, and *551H* or *571H*. Students with advanced preparation in the material covered in any of *551H*, *561H*, or *571H* may appeal to take the corresponding advanced course instead: *552H*, *562H*, or *572H*, respectively.

CANADIAN STUDIES AND NATIVE STUDIES

Telephone: (705) 748-1750

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Fax: (705) 748-1801

Web: www.trentu.ca/frostcentre

This collaborative interdisciplinary M.A. program is offered by the Frost Centre for Canadian Studies and Native Studies and involves faculty from Administrative Studies, Canadian Studies, Cultural Studies, Environmental & Resource Studies, Native Studies and Women's Studies in addition to the departments of Economics, English, French, Geography, History, Political Studies, and Sociology.

The Centre and M.A. program focus especially on: the study of the Aboriginal Peoples in Canada; interdisciplinary explorations of Canadian culture in literature, the visual arts and monuments; power and policy in Canadian society; environmentalism and bioregionalism in Canada; natural and cultural heritage: policy, planning, management and interpretation; region and place in Canada, including the comparative analysis of regionalism in federal societies; race, class, gender and ethnicity in Canadian society; community economic development; Canada in the global context.

Graduate Program Director

J.H. Wadland, B.A. (McMASTER), M.A. (WATERLOO), Ph.D. (YORK)

Faculty and Research Areas

Administrative Studies:

B. Ahlstrand, B.A. (TORONTO), M.A., M.Sc. (LSC), D.Phil. (OXFORD): *community economic development, entrepreneurship, theory*; **K.L. Campbell**, B.A. (TRENT), M.B.A. (TORONTO): *entrepreneurship, with particular emphasis on women in business and women in economic development*; **J.A. Muldoon**, B.Sc. (BROCK), M.A. (GUELPH), Ph.D. (McMASTER): *health economics, alternative health care, health policy*; **D. Newhouse**, B.Sc., M.B.A. (WESTERN ONTARIO): *from the tribal to the modern – the development of modern aboriginal societies in North America, governance and economies*

Anthropology:

J. Harrison, B.A. (SASKATCHEWAN), M.A. (CALGARY), D.Phil. (OXFORD): *tourism, museums and Aboriginal People, organizational culture*; **J. So**, M.A., Ph.D. (SUNY, BUFFALO): *cross-cultural physical and mental health; migration, ethnicity and health, health care utilization among immigrant groups in Canada*; **J.M. Vastokas**, M.A. (TORONTO), Ph.D. (COLUMBIA): *Aboriginal and Eurocanadian art and architecture, prehistoric and traditional aboriginal art historical periods, twentieth century Eurocanadian, interpretation theory*

Canadian Studies:

D.M. Clarke, B.A. (TRENT), M.A. (McMASTER), Ph.D. (CARLETON): *media industries, families and households, Canadian political economy*; **M. Lacombe**, M.A., Ph.D. (YORK): *women's writing, Postcolonial literature in Canada, diversity and Quebec/Francophone writing and culture*; **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*

Comparative Development Studies:

J. Clapp, B.A. (MICHIGAN), M.Sc., Ph.D. (LONDON): *global environmental politics, environment and development, international political economy, global development*; **C.V. Huxley**, B.A. (YORK, ENG.), 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*

Cultural Studies:

J.M. Bordo, B.A. (McGILL, ALBERTA), M.A., M.Phil., Ph.D. (YALE): *cultural and aesthetic theory, errings of contemporary art, colonialist landscape art (Australia and Canada)*; **R.J. Dellamora**, A.B. (DARTMOUTH COLLEGE), B.A. (CAMBRIDGE), M.Phil., Ph.D. (YALE): *gender issues, sexual orientation*; **V. Hollinger**, M.A. (CONCORDIA): *the state of current science fiction scholarship for a co-edited project on the history of scholarship and theory, science fiction stories about the post-modern condition*; **S.H.W. Kane**, B.A. (CARLETON), M.A., Ph.D. (TORONTO): *oral narrative*; **E. Waterman**, Mus. Bach. (MANITOBA), M.A., Ph.D. (CALIFORNIA S.D.): *music subculture, musical identity, soundscape*; **A.L. Wernick**, B.A. (CAMBRIDGE), M.A., Ph.D. (TORONTO): *Canadian social and cultural theory (esp. Innis), popular culture, religion*

Economics:

S. Choudhry, M.A. (McGILL), Ph.D. (MANITOBA); **D.C.A. Curtis**, M.A. (QUEEN'S), Ph.D. (McGILL); **J.A. Muldoon**, B.Sc. (BROCK), M.A. (GUELPH), Ph.D. (McMASTER): *health economics, alternative health care, health policy*

Education:

D.P. Berrill, B.A. (NORTHWESTERN), M.A. (TORONTO), Ph.D. (EAST ANGLIA): *sociocultural theory, gender and science, science culture, literacy, community, legitimate participation, feminist theory*

English Literature:

L.W. Conolly, B.A. (WALES), M.A. (McMASTER), Ph.D. (WALES): *Canadian theatre history, Canadian dramatic literature*; **R.J. Dellamora**, A.B. (DARTMOUTH COLLEGE), B.A. (CAMBRIDGE), M.Phil., Ph.D. (YALE): *gender issues, sexual orientation*; **M.C. Eddy**, M.A. (WESTERN ONTARIO), Ph.D. (TORONTO): *feminist and gender theories, theories of race and ethnicity, theories of the body and subjectivity, contemporary fiction*; **S.H.W. Kane**, B.A. (CARLETON), M.A., Ph.D. (TORONTO): *oral narrative*; **J.E. Neufeld**, B.A. (TORONTO), M.A., Ph.D. (CHICAGO): *19th and 20th Century Canadian literature and culture*; **M.A. Peterman**, A.B. (PRINCETON), M.A., Ph.D. (TORONTO): *19th Century and 20th Century Canadian literature and culture, Ontario literature, literature of the West, Irish Canadian writers, esp. Moodie, Traill, Davies, Findley, Urquhart*

Environmental & Resource Studies:

S. Bocking, B.Sc., M.A., Ph.D. (TORONTO): *environmental history, history of science, science in Canadian society*; **J. Clapp**, B.A. (MICHIGAN), M.Sc., Ph.D. (LONDON): *global environmental politics, environment and development, international political economy, global development*; **D.G. Holdsworth**, B.Sc. (WATERLOO), M.Sc. (McMASTER), Ph.D. (WESTERN ONTARIO): *foundations of risk analysis, nuclear regulation, science policy, environmental philosophy, foundations of Quantum Theory, Category Theory and Topos Theory*; **T.C. Hutchinson**, B.Sc. (MANCHESTER), Ph.D. (SHEFFIELD): *environmental and agricultural history of Canada, impacts of pioneers on environment biota and on forests, social history of mining and smelting towns*; **R.C. Paehlke**, B.A. (LEHIGH), M.A. (NEW SCHOOL FOR SOCIAL RESEARCH), Ph.D. (BRITISH COLUMBIA): *Canadian and comparative environmental policy, history of North American environmental movement, Canadian public policy in global perspective*; **L. Rubinoff** (Emeritus), B.A. (QUEEN'S), M.A., Ph.D. (TORONTO); **T.H. Whillans**, B.A. (GUELPH), M.Sc., Ph.D. (TORONTO): *bioregionalism, community-based natural resource management, ecological restoration, historical ecology, wetlands, watersheds and lakes*

Geography:

A.G. Brunger, B.Sc. (SOUTHAMPTON), M.Sc. (ALBERTA), Ph.D. (WESTERN ONTARIO): *settlement process, Upper Canada/Ontario, regional development, public works*; **F.M. Helleiner** (Emeritus), M.A., Ph.D. (WESTERN ONTARIO); **J.S. Marsh**, B.A. (READING), M.Sc. (ALBERTA), Ph.D. (CALGARY): *conservation and tourism, history, planning and management in Canada and abroad*; **G.A. Nader**, B.A. (LONDON), Ph.D. (DURHAM): *urban and regional development and planning, Canadian urban history, structure and growth of urban systems*; **C.H. Taylor**, M.A. (CANTERBURY), Ph.D. (McGILL): *water resources and watershed studies*; **S. E. Wurtele**, B.Sc. (TRENT), Ph.D. (QUEEN'S): *cultural heritage, ethnicity, gendered spaces*

History:

B.W. Hodgins (Emeritus), B.A. (WESTERN ONTARIO), M.A. (QUEEN'S), Ph.D. (DUKE); **J.N. Jennings**, B.A. (TORONTO), M.A. (CALGARY), Ph.D. (TORONTO); **E.H. Jones**, B.A. (SASKATCHEWAN), M.A. (WESTERN ONTARIO), Ph.D. (QUEEN'S): *18th and 19th century Canadian political culture, comparative North American Protestantism in all periods, amusement and recreation history (1850 to 1920), Sir Sandford Fleming diary*; **D. McCalla**, B.A. (QUEEN'S), M.A. (TORONTO), D.Phil. (OXFORD): *19th century Canadian social and economic history*; **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*

M.L.L. – French Studies:

Y. Thomas, B.A. (UQAM), M.A., Ph.D. (MONTREAL): *avant-garde, dada, surrealism, situationism, critical urbanism*

Native Studies:

M.J. Castellano, (Mohawk) (Emeritus), B.A. (QUEEN'S), M.S.W. (TORONTO); **M.S. Dockstator**, B.Sc. (WATERLOO), LL.B., D.JUR. (OSGOODE): *aboriginal self government, traditional knowledge, law, constitutional development*; **P. Kulchyski**, B.A. (WINNIPEG), M.A., Ph.D. (YORK);

E. Manítowabi, (Anishinabe), MIDE.III (3-FIRES); D.N. McCaskill, B.A. (WINNIPEG), M.A. (CARLETON), Ph.D. (YORK); **J.S. Milloy**, B.A. (ST. PATRICK'S), M.A. (CARLETON), Ph.D. (OXFORD): *aboriginal policy, aboriginal education and health issues, plains Indian history*; **D. Newhouse**, (Onondaga), B.Sc., M.B.A. (WESTERN ONTARIO): *from the tribal to the modern – the development of modern aboriginal societies in North America, governance and economies*

Philosophy:

M.L. Rubinoff, B.A. (QUEEN'S), M.A., Ph.D. (TORONTO) (Emeritus)

Political Studies:

E. Helleiner, B.A. (TORONTO), M.A., Ph.D. (LONDON): *international political economy, globalization, nationalism, monetary and financial politics*; **D.R. Morrison**, M.A. (SASKATCHEWAN), D.PHIL. (SUSSEX): *international political economy, development studies, Canada's North-South relations*; **M. Neufeld**, B.A. (WATERLOO), M.A., Ph.D. (CARLETON): *Canadian foreign policy, Canadian political economy, Canadian political culture*; **R.C. Paehlke**, B.A. (LEHIGH), M.A. (NEW SCHOOL FOR SOCIAL RESEARCH), Ph.D. (BRITISH COLUMBIA): *Canadian and comparative environmental policy, history of North American environmental movement, Canadian public policy in global perspective*; **J. Wearing** (Emeritus), B.A. (WESTERN ONTARIO), M.A. (TORONTO, OXFORD), D.PHIL. (OXFORD): *Canadian political parties, political television advertising, party discipline, parliamentary dissent in Canada and the United Kingdom*

Psychology:

D.J. Kennett, B.A., Ph.D. (McMASTER): *variables promoting healthy adjustment to everyday life demands/stresses, the complex and multidimensional aspects of goal accomplishments*

Sociology:

S. Arat-Koc, B.A. (BOGAZICI), M.A. (WATERLOO), Ph.D. (TORONTO): *citizenship, immigration policy, immigrant women in Canada, race and ethnicity*; **R.T. Bowles** (Emeritus), B.Sc. (BRIGHAM YOUNG), Ph.D. (OREGON); **D.M. Clarke**, B.A. (TRENT), M.A. (McMASTER), Ph.D. (CARLETON): *media industries, families and households, Canadian political economy*; **J.R. Conley**, B.A. (ALBERTA), M.A. (TORONTO), Ph.D. (CARLETON): *social inequality, class formation, social movements, labour history*; **A. Heitlinger**, B.A. (KENT), Ph.D. (LEICESTER): *status of women, postcommunist transition in the Czech Republic, health professions, transnational feminist movement, migration, travel*; **C.V. Huxley**, B.A. (YORK, ENG.), 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 INST.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*; **G. Thibault**, B.A., B.Ed., M.A., Ph.D. (DALHOUSIE): *Canadian education, social policy*

Women's Studies:

S. Arat-Koc, B.A. (BOGAZICI), M.A. (WATERLOO), Ph.D. (TORONTO): *citizenship, immigration policy, immigrant women in Canada, race and ethnicity*; **M. Hobbs**, B.A. (TRENT), M.A. (TORONTO), Ph.D. (OISE): *Canadian women's history (esp. work and welfare), women and environment/feminism and environmentalism*; **B.L. Marshall**, M.A. (GUELPH), Ph.D. (ALBERTA): *women in Canada, feminist politics, feminist media*; **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*

Conjunct Professors

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); **R. Page**, B.A., M.A. (QUEEN'S), Ph.D. (OXFORD): (TransAlta Corp.)

Regulations

The general regulations and requirements of Trent University for the M.A. degree apply to the Canadian Studies and Native Studies Program. Applicants are expected to have a minimum of an upper second-class Honours degree (B+ average) in an area relevant to their proposed course of study at Trent, and are expected to have taken undergraduate courses relating to Canada, or be willing to take such courses as their make-up, usually before admission. As well, students must have a clear interest in an interdisciplinary graduate experience.

The main emphasis will be on the research and writing of an interdisciplinary thesis on an approved topic within a maximum period of three years. Two graduate courses comprising *CSNS 500*, and one of *CSNS 5101, 5102, 5103, 520, 530, 540, 550, 560, 570, 580, 590, or 599H* is also required. Candidates must attain at least a second class standing in their work, and shall pass an oral examination in defence of their thesis. Additional requirements appropriate to the candidate's field may be specified by the supervisory committee.

Thesis Supervision

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, a secondary supervisor, who must be a member of the Frost Centre and another secondary supervisor, who may be from outside the university, if appropriately qualified. The committee must represent at least two of the disciplines or programs involved in Canadian Studies and Native Studies.

Financial Support

Applicants are encouraged to seek external scholarships where available. In addition, Trent has a variety of means of supporting graduate students, including the provision of teaching assistantships, research assistantships and scholarships. Students will normally be eligible for graduate assistantships 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.

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 Topics course under the guidance of an individual faculty member will 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 and 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. *J.H. Wadland*

CSNS 5101 The Study of the Aboriginal Peoples in Canada: Governance

CSNS 5102 The Study of the Aboriginal Peoples in Canada: History and politics

CSNS 5103 The Study of the Aboriginal Peoples in Canada: Society and culture

CSNS 520 Canadian culture through literature, the visual arts and monuments

CSNS 525 Health and health care in Canada

CSNS 530 Power, policy and labour in Canadian society

CSNS 540 Environmentalism and bioregionalism in Canada

CSNS 550 Heritage resources

CSNS 560 Region and place in Canada, including the comparative analysis of regionalism in federal societies

CSNS 570 Women in Canadian society

CSNS 580 Community economic development

CSNS 590 Canada and globalization

CSNS 599H

Special Topic. This course can be substituted for, or taken in addition to, one of the above theme courses when it is not offered. A written justification, course outline, and approval of the Graduate Program Director are required to take the course.

METHODOLOGIES FOR THE STUDY OF WESTERN HISTORY AND CULTURE

Telephone: (705) 748-1809

Fax: (705) 748-1829

E-mail: methodology@trentu.ca

Web: www.trentu.ca/methodologies

Interdisciplinary in spirit and theoretical in emphasis, this M.A. program focuses on contemporary issues in the humanities and social sciences concerning the interpretation/analysis of Western (and, in comparative perspective, non-Western) culture, using the term "culture" in its widest sense. It 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, and 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 the Methodologies Seminar (M500) which involves all students and faculty in the program, and on a Master's thesis. The degree program is intended both as a preparation for doctoral studies, and as a qualification in itself for those pursuing a non-academic career (e.g. in teaching, media, law, and government service).

Areas of emphasis within the program are: textuality, semiotics and discourse analysis; nature, culture and technology; cultural politics and political philosophy; gender, body and subjectivity; media and popular culture; and the philosophy and history of science.

It should be noted that the program is connected to the Centre for the Study of Theory, Culture and Politics. The Centre 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, and rethinking the epistemic. The current theme is "Borders and Boundaries." For further information about the Centre, the program and current activities, please visit our web site at www.trentu.ca/methodologies.

Faculty

Graduate Program Director A.L. Wernick, M.A. (CAMBRIDGE), M.A., Ph.D. (TORONTO)

Faculty and Research Areas

Computer Studies:

S. Regoczei, M.Sc. (TORONTO); *textual analysis, conceptual modelling, Foucault and discourse theory, methodologies for the development of knowledge-based software*

Cultural Studies:

Z. Baross, B.A. (U.B.C.), M.A. (LONDON), Ph.D. (AMSTERDAM): *ethics of testimony and witnessing, question of community/hostility/hospitality, relation between political and the philosophical, lure of the Image*; **R. Dellamora**, M.A. (CAMBRIDGE), Ph.D. (YALE): *Victorian studies, aestheticism and the decadence, literature/visual arts/opera in relation to gender and sexuality, cultural construction of masculinities, critical theory (Foucault, Barthes and Derrida)*; **C. Eddy**, M.A. (WESTERN), Ph.D. (CONCORDIA): *feminist cultural theory, performance theory, contemporary science fiction, popular culture*; **J. Fekete**, M.A. (McGILL), Ph.D. (CAMBRIDGE): *literary and cultural theory, Anglo-American and European, esp modern and post-modern, science fiction, the technological imaginary, moral panic, biopolitics*; **V. Hollinger**, M.A., Ph.D. (CONCORDIA): *queer and feminist fantastic fiction, feminist theory, post-modern theatre*; **S.H.W. Kane**, B.A. (CARLETON), M.A., Ph.D. (TORONTO): *oral literature and poetics, mythology and modernity, medieval and Renaissance thought*; **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. (MONTREAL): *avant-garde, dada, surrealism, situationism, critical urbanism*; **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, M.A. (CAMBRIDGE), Ph.D. (YALE), **C. Eddy**, M.A. (WESTERN), Ph.D. (CONCORDIA),
J. Fekete, M.A. (MCGILL), Ph.D. (CAMBRIDGE), **S.H.W. Kane**, B.A. (CARLETON), M.A., Ph.D.
 (TORONTO), **D.F. Theall** (*Emeritus*), B.A. (YALE), M.A., Ph.D. (TORONTO)

Environmental & Resource 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**, A.B. (CALIFORNIA-BERKELEY), M.E.S. (YORK), M.A., Ph.D. (TORONTO): *critical theory, the public sphere, policy discourse, green political thought*

M.L.L. – French Studies:

Y. Thomas, M.A., Ph.D. (MONTREAL)

Native Studies:

P. Kulchyski, M.A., Ph.D. (YORK): *theories of agency, postmodernism, the state, contemporary aboriginal politics in northern Canada*

Philosophy:

C.V. Boundas, M.A., Ph.D. (PURDUE): *Deleuze's philosophy, theory of difference, postmodernism, post-structuralism, Desire, Minoritarian literature, Nomadism, Schizoanalysis*;
R. Carter, M.Div. (HARVARD), M.A., Ph.D. (TORONTO): *comparative philosophy, comparative ethics, Japanese philosophy, Chinese philosophy, the Kyoto School, science and religion*;
B. Hodgson, M.A. (TORONTO), Ph.D. (WESTERN ONTARIO): *philosophical foundations of the natural and human sciences, contemporary epistemology/metaphysics*

Political Studies:

E. Stavro, M.A., Ph.D. (TORONTO): *feminist theory, contemporary French philosophy, reproductive technology*; **D. Torgerson**, A.B. (CALIFORNIA-BERKELEY), M.E.S. (YORK), M.A., Ph.D. (TORONTO)

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*

Regulations

The general regulations and requirements of Trent University for the M.A. degree apply to the Methodologies 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 a high academic standing in the last two years of full-time study, demonstrated aptitude for interdisciplinary study, and an appropriate area of intellectual and research interest. Students admitted to the program must have completed an Honours degree, or its equivalent, in high standing. Under special circumstances, a student not meeting all the requirements may be admitted to a qualifying year, or may be given conditional admission.

Course work, amounting to three full-time courses, is required as follows:

- a) The Methodologies Seminar (M500)
- 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 course, an elective (which may be 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 M500.

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 defense 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.

Financial Support

A limited number of Graduate Teaching Assistantships is available for full-time students admitted to the program. Assistantships, normally for two years, are awarded at the point of admission. The availability of assistantships is kept under continual review, and additional assistantships 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 TO GRADUATE STUDENTS: Methodologies of the Study of Western History and Culture (METH)

Not all courses are available every year.

METH 500 – Seminar on methodology

The seminar brings together all faculty and students enrolled in the program for an intensive exploration of competing contemporary theoretical perspectives bearing on the study of Western history and culture. The focus will be on problems of value, ideology, interpretive "prejudice," language and cultural forms and situations, in the context of a broadly defined theme which will vary from year to year. In 2000 – 2001, the theme will be "borders and boundaries."

METH 550H – Special Topics

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 option available for 2000 – 2001 will include at least three of the following:

METH 5501H – Hermeneutics and deconstruction

The course focuses on hermeneutical and deconstructive tendencies within recent German and French Philosophy. Texts will be selected from the writings of: Horkheimer, Heidegger, Gadamer, Habermas, Ricoeur, Barthes, Lyotard, Foucault, Derrida, Deleuze, Nancy and Kristeva.

METH 5502H – Enlightenment, epistemology and scientific culture

This course provides a critical overview of empiricist thought in European culture, with special emphasis on the conduct of scientific inquiry. Authors to be studied include Taylor, Habermas, Descartes, Hume, Carnap, Kuhn, Feyerabend, Goodman, Peirce, Hacking, Rorty, and Latour among others.

METH 5503H – Genealogy of the other

Taking as its theme and concern the Other, as figure and concept, the course will offer a close reading of selected texts by Freud, Lacan, Bataille, Serres, Derrida, Irigaray, Deleuze, and Levinas.

METH 5504H – The "political economy" of sexual difference

The course focuses on nature as defined in terms of limits formulated in terms of transgression; the prohibition of incest; bodily pollution; and, in particular, sexual difference. Authors to be considered include Engels, Levi-Strauss, Foucault, Derrida, Kristeva, Wittig, Judith Butler, Eve Sedgwick, Leo Bersani, and Lee Edelman.

METH 590

Reading course.

NATIVE STUDIES

Telephone: (705) 748-1443

Fax: (705) 748-1416

E-mail: nativestudies@trentu.ca

Web: www.trentu.ca/nativestudies

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 will bring together aboriginal and non-aboriginal students to study at an advanced level the historical, cultural and contemporary situation of the aboriginal/indigenous people. The Ph.D program will combine academic, cultural and experiential pedagogies through a partnership between the University and aboriginal communities. Aboriginal people, particularly aboriginal Elders, who possess knowledge of the traditional culture, will also be central to the Ph.D. program. The Ph.D program will have 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. 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. This will be followed by the research, writing and defence of their Ph.D. dissertation.

The Ph.D. program will entail a number of innovative features. It attempts to assume an emic, or insider's, viewpoint to capture Indigenous knowledge. The Native Studies basis of knowledge and practice reflects an aboriginal world-view rooted in aboriginal spirituality, principles and cultural values. It blends aboriginal thought as expressed in a variety of sources, including the knowledge of aboriginal elders and traditional people, with Western academic perspectives. The program entails extensive involvement of aboriginal people as the source of knowledge and information. There is recognition that the knowledge, skills and experience of aboriginal individuals is, within the context of aboriginal experience, as valid as the academic knowledge of Western-trained academics. The program also recognizes that knowledge of the situation of aboriginal people evolves from more than just the intellectual study of academic texts and is not limited to the confines of the university.

The Native Studies Ph.D. Program Graduate Council

The Ph.D. program is overseen by the Native Studies Ph.D. program Graduate Council which is composed of members of the aboriginal community, faculty, students and staff from Trent, and faculty from other universities.

Graduate Program Director

D. N. McCaskill, B.A. (WINNIPEG), M.A. (CARLETON), Ph.D. (YORK)

Director of Studies

D. Longboat, (Mohawk, Turtle Clan), B.A. (TRENT), M.E.S. (YORK)

Faculty and Research Areas

Native Studies

M. Brant-Castellano, (Mohawk, Wolf Clan) B.A. (QUEEN'S), M.S.W. (TORONTO): *Aboriginal organizations, RCAP, Aboriginal traditions of knowledge, Aboriginal education*; **M.S. Dockstator**, (Oneida) B.Sc. (WATERLOO), L.L.B., D. Jur (YORK): *Aboriginal self-government, traditional knowledge, law, constitutional development*; **P. Kulchyski**, B.A. (WINNIPEG), M.A., Ph.D. (YORK): *Aboriginal self-government and land claims, Aboriginal cultural politics in the North, contemporary political thought*; **E. Manitowabi** (Anishnabe Kwe) Mide.III (3 Fires): *Nishnaabemowin (Ojibway) language and culture, Aboriginal women studies, film and theatre, traditional knowledge*; **D. N. McCaskill**, B.A. (WINNIPEG), M.A. (CARLETON), Ph.D. (YORK): *Aboriginal education, urbanization, justice and corrections, community development, self-government, international development*; **J.S. Milloy**, B.A. (ST PATRICK'S), M.A. (CARLETON), D. Phil. (OXFORD): *Aboriginal policy, Aboriginal education and health issues, Plains Indian history*; **D. Newhouse**, (Onondaga), B.Sc., M.B.A. (WESTERN ONTARIO): *development of modern Aboriginal societies, governance, economies*; **S. I. Williams**, (Anishnaabe Kwe), B.A. (TRENT), NLP Dip (LAKEHEAD), M.A. (YORK), Mide I (3 Fires): *Nishnaabemowin (Ojibway) language and culture, Aboriginal residential schools, Aboriginal woman studies, traditional knowledge, Aboriginal identity development*.

Anthropology

J. Harrison, B.A. (SASKATCHEWAN), M.A. (CALGARY), D.Phil. (OXFORD), *public policy about Native people of Canada, museums as agents of postcolonialism, museums and tourist expectations*; **S.M. Jamieson**, B.A. (McMASTER), M.A. (MANITOBA), Ph.D. (WASHINGTON STATE)

Ontario Iroquois evolution, ethnohistoric approaches, Western sub-arctic prehistory, method and theory in archaeology, Plains prehistory, Northeastern middle woodland, problems in historic archaeology, Canadian archaeology; J. M. Vastokas, M.A. (TORONTO), Ph.D. (COLUMBIA), Native art as performance, landscape, experience and symbol, political resistance through tradition and non-conformity, Native art of North America, artifacts as text, the visionary experience, ancient Australia and symbiotic interaction, totem poles, folklore and folk art.

Canadian Studies

S.D. Grant, M.A. (TRENT) *Northern identity, Inuit resettlement, the Northwest passage;*
J.E. Struthers, M.A. (CARLETON), Ph.D. (TORONTO) *social welfare, freedom of information, unemployment, long-term care, pension and old age security in Ontario; J.H. Wadland, M.A. (WATERLOO), Ph.D. (YORK),* *Aboriginal issues, Mi'kmaq on reserve health, education, alcohol and drug problems, RCAP, Mi'kmaq planning, access for under-represented populations in Nova Scotia.*

Cultural Studies

J. Bordo, B.A. (MCGILL, ALBERTA), M.A., M.PHIL., Ph.D. (YALE), *landscape, contemporary art, picturing, modern technology, and Aboriginal land claims.*

Economics

S. Choudhry, M.A. (CHITTAGONG, Bangladesh), M.A. (MCGILL), Ph.D. (MANITOBA), RCAP, DIAND. *First Nations Consultants, economics and economic development*

Environmental & Resource Studies

R. C. Paehlke, B.A. (LEHIGH), M.A. (NEW SCHOOL FOR SOCIAL RESEARCH), Ph.D. (BRITISH COLUMBIA), *conservation, environmentalism and politics, and economics, and urbanization, and labour, and policy, global environmental problems and sustainable development.*

History

B.W. Hodgins (Emeritus), B.A. (WESTERN ONTARIO), M.A. (QUEEN'S), Ph.D. (DUKE), *Northern studies, Temagami land claims, environmental issues, transportation, natural resources;*
S.D. Standen, B.A. (BRITISH COLUMBIA), M.A. (OREGON), Ph.D. (TORONTO), *Aboriginal history in Ontario, socio-economic impact of colonialization in French colonies, consequences of conquest.*

Political Studies

D.R. Morrison, M.A. (SASKATCHEWAN), D.PHIL (SUSSEX), *bilateral aid, evaluating development assistance, CIDA and Canadian development assistance.*

Regulations

The general regulations and requirements of Trent University for graduate degrees apply to the Ph.D. program in Native Studies. To be eligible for admission, the applicant must possess a Master's Degree or equivalent, with at least an upper second-class standing (B +, 77 %). In their application, students will be invited to indicate their area(s) of research interest. Ideally, applicants will possess a Master's degree in the field of Native Studies, however, given the limited number of Master's programs available in Native Studies, highly-qualified students from other disciplinary-based graduate programs will be considered for admission. In some cases, students without a background in Native Studies will be required to enroll in a qualifying year program in Native Studies to ensure an adequate academic background in Native Studies.

Students will be required to demonstrate proficiency in a language other than English, preferably an aboriginal language. Proficiency in an aboriginal language may be demonstrated by either: passing an examination in an aboriginal language administered by the Native Studies department, or by presenting a transcript with a grade of B or better in an aboriginal language course taken at an accredited university. Proficiency in a foreign language may be demonstrated by means of presenting a transcript showing a grade of B or better in an upper-year course in a foreign 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. Scholarships will be awarded to students with high academic standing.
- The majority of students accepted will be offered teaching or research assistantships, normally for a maximum of six terms spanning three consecutive undergraduate academic years. In return for the stipend involved, the students are required to work

for up to 10 hours per week, generally assisting with some aspect of the undergraduate teaching program. The stipend is fully taxable and deductions are made through the Human Resources department.

- Students are encouraged to apply for scholarships, particularly the Ontario Graduate Scholarship (OGS): Student Support Branch, Ontario Ministry of Education and Training, P. O. Box 4500, 189 Red River Road, 4th Floor, Thunder Bay, Ontario P7B 6G9 and the Social Science and Humanities Research Council Doctoral Fellowships (SSHRC).

Notes and Provisos

- All students will take *NAST 600, 601, 620H, 700, 701 and 720H*.
- Students will enroll in either *NAST 605 or 610* and, in second year either *NAST 705H or 710H*.
- Students must maintain a B+ average in all courses.
- 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.
- See “*NAST 800 – Dissertation*” for a description of the requirements.
- The maximum time for completion of the Ph.D. degree is five years.

First Year Courses

Not all courses are offered each year

NAST 600 – Indigenous knowledge

This course is to be taken by all students. The course will be holistic; addressing physical, mental, emotional and spiritual aspects of knowledge. The source of this knowledge is Elders and traditional people and is expressed primarily through oral teachings and experience rather than written texts and academic discourse. The goal is to develop an understanding of the connectedness of all things, physical and spiritual, which can lead to increased self-awareness and becoming a balanced human being. Learnings from the course will often be very personal involving intuitive understanding as well as ideas which address the intellect and will entail establishing a relationship between the student, the Elder and the teachings. To implement this vision, the course will involve a variety of pedagogies including Elders teaching, participating in experiential workshops, classroom discussion, and field trips to cultural camps and aboriginal organizations.

NAST 601 – Native studies theory and methods

This course is to be taken by all students. The course will present students with a range of theoretical and methodological issues related to conducting research in aboriginal communities. A number of indigenous and western approaches to the construction of knowledge will be examined, with a view to developing a distinctive Native Studies theory and method. It will focus on oral history and community-based research methods. Topics include research design, community rapport, administration, community-based data collection and analysis.

NAST 605 – Native studies history and politics

This course examines the history of inter-cultural relations between aboriginal peoples and the larger society. It will focus on topics such as early contact, the fur trade, the development of colonial policy, treaties, the reserve system, aboriginal de-colonialization movements, modern political dialogue for constitutional renewal and issues of land claims and self-government.

NAST 610 – Social and cultural issues in Native studies

This course examines a wide range of social and contemporary issues as they affect Aboriginal Peoples in Canada including: contemporary revitalization of traditional aboriginal culture, models of aboriginal community development, development of aboriginal institutions in the areas of education, health and social services, economic development, law, urbanization and cross-cultural relations.

NAST 620H – Independent study and research

This course is to be taken by all students. Options for independent study include: developing an annotated bibliography in a particular area of study; carrying out an extensive review of the literature in particular topics; conducting a research project in an aboriginal community or organization; or conducting an independent study. Students will work under the supervision of a faculty member and/or designated members of the aboriginal community. The course is a self-developed, broad-based review of issues from fields which may be collateral to the student's dissertation, and may not necessarily be covered by existing courses. The student will work with their supervisor(s) to develop a detailed course syllabus or research proposal. This experience, in a practical structuring of curriculum or research proposal, aids in developing skills for future use.

Second Year Courses**NAST 700 – Practicum field placement**

Students are required to work full-time or carry out research with a First Nation community or aboriginal organization, with a focus on community or organizational needs. The community-based project will be approximately three months in duration and will normally be carried out in the summer following the first or second year of study. A key objective is to immerse the student in the culture and the community. Students will be supervised by a faculty member and a designated member of an aboriginal community or organization.

NAST 701 – Dissertation research course

This course is designed to allow students to work with their dissertation supervisor and committee through periodic meetings 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 Native Studies Graduate Program Executive Committee (NSGPEC). A Dissertation Proposal Defence Examining Committee will be established which will include three members of NSGPEC, at least two of which are not members of the student's supervisory committee. The student and the dissertation supervisor will present the proposal to the Dissertation Proposal Examining Committee. The NSGPEC will determine whether the student has an effective grasp of her/his area of study, a viable research proposal and potential for completion of the degree.

NAST 705H – Reading course in Native studies history and politics for comprehensive examination**NAST 710H – Reading course in social and cultural issues for Comprehensive Examination****NAST 720H – Reading course in Native Studies for Core Comprehensive Examination****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.

TRENT/QUEEN'S

Telephone: (705) 748-1505
Fax: (705) 748-1625

E-mail: graduate@trentu.ca
Web: *under construction*

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 admitted to the graduate faculty and will have been appointed as adjunct faculty at Queen's University. Students who wish to enrol in the Trent/Queen's program and pursue graduate study at Trent University must make application initially to Trent University.

Associate Director

J.M. Parnis, B.Sc., Ph.D. (TORONTO)

Trent Faculty Currently Holding Adjunct Appointments at Queen's

These are listed under the collaborating departments:

Ancient History & Classics

I.C. Storey, M.A. (TORONTO), M.Phil. (OXFORD), Ph.D. (TORONTO): *Greek drama (especially Euripides and Aristophanes)*

Chemistry

H. Hintelmann, B.Sc., Ph.D. (HAMBURG): *new speciation approaches for organometals in the environment*; **E. Lewars**, B.Sc. (LONDON), Ph.D. (TORONTO): *computational chemistry studies of theoretical interest*; **R.E. March** (Emeritus), B.Sc. (LEEDS), Ph.D. (TORONTO), F.C.I.C.: *mass spectrometry*; **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 organic/inorganic 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.*

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): *Forest-atmosphere energy interactions, impacts of climatic change*; **R. Ponce-Hernandez**, B.Eng., M.Sc. (CHAPINGO), D.Phil. (OXFORD): *geographical information systems and remote sensing*

Physics

J.W. Jury, M.Sc., Ph.D. (TORONTO): *subatomic physics*; **A.J. Slavin**, M.Sc. (TORONTO), Ph.D. (CAMBRIDGE): *structure and reactivity of solid surfaces*

Financial Support

All graduate students enrolled at Queen's University and resident at Trent are eligible for financial support from funds normally available at Queen's.

Financial support may be available to graduate students as compensation for assistance in teaching and research. Details are arranged individually by the supervisor of each graduate student.

For further information write to the Associate Director.

COURSES AVAILABLE TO GRADUATE STUDENTS: Trent/Queen's Programs

Not all courses are available every year.

Trent does not offer single-discipline graduate programs in Chemistry or Physics.

However, approved graduate courses listed below may be available for credit in Trent's Applications of Modelling program, the Trent-Queen's Co-operative Program in Graduate Studies, or through other special arrangements such as the Ontario Graduate Visiting Student Plan. If taken in the Modelling Program, these courses would be given an AMOD 501H or AMOD 502H designation.

Ancient History & Classics

Greek 590: Special topic in Greek literature

Latin 590: Special topic in Latin literature

Classical History 590: Special topic in ancient history

Chemistry

Chemistry 500H: Advanced topics in physical chemistry
Chemistry 501H: Electrochemistry
Chemistry 502H: Chemical processes
Chemistry 511H: Synthetic organic chemistry
Chemistry 520H: Selected topics in inorganic chemistry
Chemistry 530H: Plant metabolism

Physics

Physics 500H: Quantum mechanics
Physics 501H: Advanced quantum mechanics
Physics 510H: Surface science
Physics 520H: Nuclear physics
Physics 530H: Statistical mechanics

Physics 540H: Solid state physics
Physics 550H: Electromagnetism
Physics 551H: Electrodynamics
Physics 590: Advanced topics

WATERSHED ECOSYSTEMS

Telephone: (705) 748-1360
 Fax: (705) 748-1026

E-mail: graduate@trentu.ca
 Web: www.trentu.ca/wegp

The Watershed Ecosystems Graduate Program offers instruction leading to either a M.Sc. or a Ph.D. degree. Applicants should hold undergraduate Honours degrees in Biology, Geography, or Environmental Science. A qualifying year can be arranged for those who do not meet minimum standards, but no guarantee of subsequent admission to the program is implied. Prospective Ph.D. students will normally have a M.Sc. degree. Applicants who have achieved excellent standing at the honours baccalaureate level, and who wish to proceed directly to Doctoral study, will enrol, in the first instance, 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.

The program offers instruction in three areas of emphasis: toxicology and fate of contaminants; ecological processes and ecosystem structure; and physical and chemical environmental processes. Candidates will be required to undertake research on a topic that relates to the interests of a member of the faculty as outlined below. They will be encouraged to concentrate on interdisciplinary topics and to utilize the expertise and resources of each of the departments involved in the program.

Graduate Program Director

To be named

Faculty and Research Areas**Biology:**

M. Berrill, B.Sc. (MCGILL), M.Sc. (HAWAII), Ph.D. (PRINCETON): *behavioural ecology*;
M.J. Bidochka, B.Sc. (BROCK), M.Sc. (REGINA), Ph.D. (SASKATCHEWAN): *molecular biology, insect-infecting fungi, population genetics*; **R. Jones**, B.Sc. (WALES), M.Sc. (KANSAS), Ph.D. (WALES): *plant ecology, biogeochemistry, disturbed habitats*; **D.C. Lasenby**, B.Sc. (TRENT), Ph.D. (TORONTO): *limnology, biological, physical and chemical aspects of lakes*; **C. Kapron-Bras**, B.Sc. (WATERLOO), M.Sc., Ph.D. (MCGILL): *cellular and molecular mechanisms of embryonic toxicity and teratogenicity*; **E. Nol**, B.Sc. (MICHIGAN), M.Sc. (GUELPH), Ph.D. (TORONTO): *behavioural and evolutionary 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*

Environmental & Resource Studies:

P. J. Dillon, Ph.D. (TORONTO): *nutrient cycling, trace metals, acid precipitation studies (NSERC Industrial Research Chair in Biogeochemistry)*; **R.D. Evans**, B.Sc. (TORONTO), Ph.D. (MCGILL): *environmental biogeochemistry, trace metal cycling*; **W. Evans**, B.A., M.A., Ph.D. (SASKATCHEWAN), F.R.S.C.: *ozone depletion, global warming*; **M. Fox**, B.A. (PENNSYLVANIA), M.E.D.S. (CALGARY), Ph.D. (QUEEN'S): *fish ecology, pond culture*; **M. Havas**, B.Sc., Ph.D. (TORONTO): *acid precipitation, toxicity of metals and acidification*; **H. Hintelmann**, DIPLOMA, DR.RER.NAT.

(HAMBURG, GERMANY): *fate of metals in environment, bioavailability/speciation of metals and organometals, stable isotope methods and hyphenated ICP-MS technique* [NSERC Industrial Research Jr. Chair in Environmental Modelling]; **T. Hutchinson**, B.Sc. (MANCHESTER), Ph.D. (SHEFFIELD), F.R.S.C.: *forest decline, terrestrial impacts*; **D. Mackay**, B.Sc. (GLASGOW), Ph.D. (GLASGOW): *fate and effects of contaminants in the environment* [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, geostatistics and remote sensing techniques applied to suitability and impact assessments in agricultural and forest ecosystems*; **T.H. Whillans**, B.A. (GUELPH), M.Sc., Ph.D. (TORONTO): *fisheries, wetland ecology, renewable resource management*

Geography:

W.P. Adams, B.A. (SHEFFIELD), M.Sc., Ph.D. (McGILL): *hydrometeorology, snow and ice* (on leave); **J.M. Buttle**, B.A. (TORONTO), Ph.D. (SOUTHAMPTON): *hydrology, fluvial geomorphology*; **J.G. Cogley**, M.A. (OXFORD), M.Sc., Ph.D. (McMASTER): *fluvial geomorphology, hydrology, Arctic*; **P.M. Lafleur**, B.Sc. (BRANDON), M.Sc. (TRENT), Ph.D. (McMASTER): *forest-atmosphere energy interactions, impacts of climatic change*; **C.L. McKenna Neuman**, M.Sc. (GUELPH), Ph.D. (QUEEN'S): *process geomorphology, mechanics of sediment transport, periglacial/coastal aeolian geomorphology*; **R. Ponce-Hernandez**, B.ENG. (UNIVERSIDAD, CHAPINGO), M.Sc. (COLEGIO DE POSTGRADUADOS), D.Phil. (OXFORD): *geographical information systems, geostatistics and remote sensing techniques applied to suitability and impact assessments in agricultural and forest ecosystems*; **C.H. Taylor**, M.A. (CANTERBURY), Ph.D. (McGILL): *hydrology, fluvial geomorphology*

Conjunct Professors

[Conjunct professors have full academic appointments in the Watershed Ecosystems Program and are able to act as principal supervisor of graduate students.]

K. F. Abraham, M.Sc. (IOWA), Ph.D. (QUEEN'S): *wetlands, waterfowl and wetland bird species* (Ontario Ministry of Natural Resources); **E. Bentzen**, B.Sc. (McGILL), M.Sc., Ph.D. (WATERLOO): *factors influencing both nutrient cycling and contaminant bioaccumulation in lakes, aquatic food web dynamics, PCBs, mercury, phosphorus, plankton* (TRENT); **L.M. Carl**, Ph.D. (MICHIGAN): *impacts of development on aquatic community using longitudinal approach, community interactions in lakes* (Ontario Ministry of Natural Resources); **J. Casselman**, Ph.D. (TORONTO): *physiology and ecology of coolwater fish* (Ontario Ministry of Natural Resources); **R.J. Conover**, B.A. (OHIO), Ph.D. (OHIO): *oceanography, aquatic biology*; **R.J. Cornett**, B.Sc. (TORONTO), Ph.D. (McGILL): *interactions of radioisotopes with ground water and lakes* (Atomic Energy of Canada); **J. C. Davies**, B.Sc. (CARLETON), Ph.D. (QUEEN'S): *caribou, moose habitat, wetland creation* (Ontario Ministry of Natural Resources); **D.O. Evans**, B.Sc. (VICTORIA), M.Sc., Ph.D. (TORONTO): *ecosystem health and productivity* (Ontario Ministry of Natural Resources); **J. Hamr**, B.Sc. (BELOIT), M.Sc. (GUELPH), Ph.D. (INNSBRUCK): *elk restoration in Ontario, population dynamics* (Laurentian University); **B.E. Hickie**, B.Sc.AGR. (GUELPH), M.Sc., Ph.D. (WATERLOO): *environmental toxicology, pharmacokinetic modelling* (Trent); **B. LaZerte**, B.A., M.A., Ph.D. (MICHIGAN): *biogeochemistry and toxicology of forest soils, wetlands, streams and lakes, freshwater research*; **D.R.S. Lean**, Ph.D. (TORONTO): *phosphorus cycling, nutrient dynamics* (Environment Canada); **N.E. Mandrak**, B.Sc., Ph.D. (TORONTO): *bio-diversity of Ontario fishes, biogeography, conservation biology* (TRENT); **R. Norstrom**, B.Sc., Ph.D. (ALBERTA): *analytical chemistry, pharmacokinetics* (Canadian Wildlife Service); **M. E. Obbard**, Ph.D. (GUELPH): *black bear populations* (Ontario Ministry of Natural Resources); **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): *study of 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) **B.N. White**, B.Sc. (NOTTINGHAM), Ph.D. (McMASTER): *genetics, molecular biology, human genetic disease, population genetics of small populations and endangered species, DNA forensic science* (Professor of Biology, McMaster University); **C.C. Wilson**, B.Sc. (QUEEN'S), M.Sc. (WINDSOR), Ph.D. (GUELPH): *evolutionary ecology and biogeography of freshwater organisms, community and population ecology, conservation biology*; **A. Zobel**, M.Sc., Ph.D. (WARSAW): *phenolic compounds in plant cells as bioindicators of environmental stress* (Trent).

Regulations

The general regulations and requirements of Trent University for graduate degrees apply to the Watershed Ecosystems Program. Candidates for both the M.Sc. and the Ph.D. degree will be required to complete the equivalent of two full courses and to submit a thesis on an approved topic. Degree candidates (M.Sc. and Ph.D.) have the option of submitting their thesis either in the "traditional" or "manuscript" format. Candidates must attain at least a second class standing in all course work to remain registered in their program, and must pass an oral examination in defence of their thesis research. *WE500H* is compulsory for all first-year M.Sc. students. Students without training in advanced statistics are strongly recommended to take *WE501H* as well.

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.

COURSES AVAILABLE TO GRADUATE STUDENTS: Watershed Ecosystems

Note: 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. Current paradigms in watershed research will be examined and students will be encouraged to develop their understanding of the systems within which their research is conducted. *Staff*

WEGP 501H – Advanced sample design and statistics

The course will emphasize advanced statistical techniques of use in field and laboratory studies in watershed research, including applications of linear and non-linear models, analysis of variance and multivariate statistics. An effort will be made to assist graduate students in planning the statistical design of their own research projects. The course will rely heavily on workshops and tutorials.

This course is highly recommended for students who have not taken an advanced statistics course (e.g. analysis of variance, multivariate statistics) as an undergraduate. An introductory statistics course is required as a prerequisite. *Staff*

WEGP 504H – Ecosystem response to changes in the hydrosphere

The course will examine the responses of biological communities to changes in the physical, chemical and biological parameters of aquatic ecosystems. Discussions may include forest clear-cutting, waterlevel fluctuations, habitat rehabilitation, exotic species introductions, eutrophication, and acid rain. The course will be seminar-based, with an emphasis on examining case histories related to individual student's research. Not open to students who have taken *ES481H*. *Staff*

WEGP 505H – Measurement techniques for hydrochemical fluxes

The 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*. Not open to students who have taken *GO404H*. *J. Buttle*

WEGP 506H – The geochemistry of natural waters

The course will examine the chemical and physical properties of water, snow and ice. An emphasis will be placed on those parameters which influence the distribution of biota, nutrients and contaminants in the aquatic environment. Topics for discussion will include the hydrologic cycle, the carbonate system and pH control, weathering and water chemistry, redox equilibria, hydrologic transport, and the properties of snow and ice. Not open to students who have taken *BI/ES/GO406H*. *D. Evans*

WEGP 507H – The fate of contaminants in the aquatic environment

The course will emphasize the mathematical modelling of the fate and distribution of aquatic contaminants, including models for toxic metals, organic xenobiotics and groundwater contaminants. The course will examine the basic algorithms and assumptions of contaminants models, and will give the students hands-on experience in applying existing models (e.g. MINTEQA, QWASI). An emphasis will be placed on using models to determine the dominant pathways influencing the fate of inorganic and organic contaminants in the aquatic environment. Not open to students who have taken *BI-ES-G0407H*. *D. Evans*

WEGP 508H – Research in physical geography

This is a seminar course on themes, methodologies and approaches of current major interest. Individual presentations based on directed readings and study. Not open to students who have taken *GO440*. *Staff*

WEGP 509H – Trends in behavioural ecology

This course examines new developments in behavioural ecology, based upon the current journal literature. Topics range from sexual selection, game theory, and optimality to assessing alternate ways of interpreting behaviour. 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. A familiarity with population genetics, ecology and basic evolutionary theory will be assumed. *E. Nol, M. Berrill*

WEGP 510H – Instrumental analysis

Course includes instruction on the theory and practical applications of instrumentation commonly used for analysis in the aquatic sciences. Lecture material includes electro-analytical methods, atomic and molecular spectroscopy and analytical chromatography. Students will have the opportunity to be trained on specific analytical instruments by working in research laboratories under the supervision of WEGP faculty. *H. Hintlemann*

WEGP 511H – Geographical information systems: techniques and applications

This course will provide familiarization with the theoretical and applied aspects of geographical information systems relevant to studies in Watershed Ecosystems. Lectures will focus on various approaches to analysis of spatial information. The applied portion of the course will involve students in the formulation of a GIS applications project related to the students' research. *R. Ponce-Hernandez*

WEGP 512H – Multimedia environmental models

The course will consist primarily of lectures with weekly assignments. Each student will complete a project consisting of a detailed assessment of a specific chemical which will require the use of a personal computer (IBM-PC-BASIC) or equivalent. There will be approximately eight assignments, a mid term and a final examination. Students should be reasonably computer literate. *D. Mackay*

WEGP 590 (or WEGP 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 prior to 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 can also register under the *WEGP 590* course number to take a course from another academic institution for credit. In the case of an undergraduate course taken for credit, a graduate student would normally have to complete an additional graduate-level assignment.

Financial Support

Full financial support is provided for a minimum of six terms for M.Sc. students and nine terms for Ph.D. students, through teaching assistantships, research assistantships or scholarships. Candidates are encouraged most strongly to apply for scholarships on their own behalf. Information on available scholarships is available from the Office of Research and Graduate Studies.

Further Information

More detailed information about the program is contained in the program handbook. Inquiries should be addressed to the director of the program.

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University Secretary

Nancy E. Simmons Smith

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To be named

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Assistant Registrar

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Catharine Parr Traill College

To be named

Champlain College

Stephen Brown, M.A., Ph.D., F.S.A.

Lady Eaton College

To be named

Otonabee College

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Telecommunication Services

Ron Krieg

Director of Conferences, Hospitality Services

Ashok Kaushik

Manager, Conference Services

Jayne Todd

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Vice-President (Advancement)

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Director of Alumni Affairs

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 Parnis, M. *Chemistry*
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 Zhou, B. *Mathematics*
 Znamirowski, B. *Librarian*

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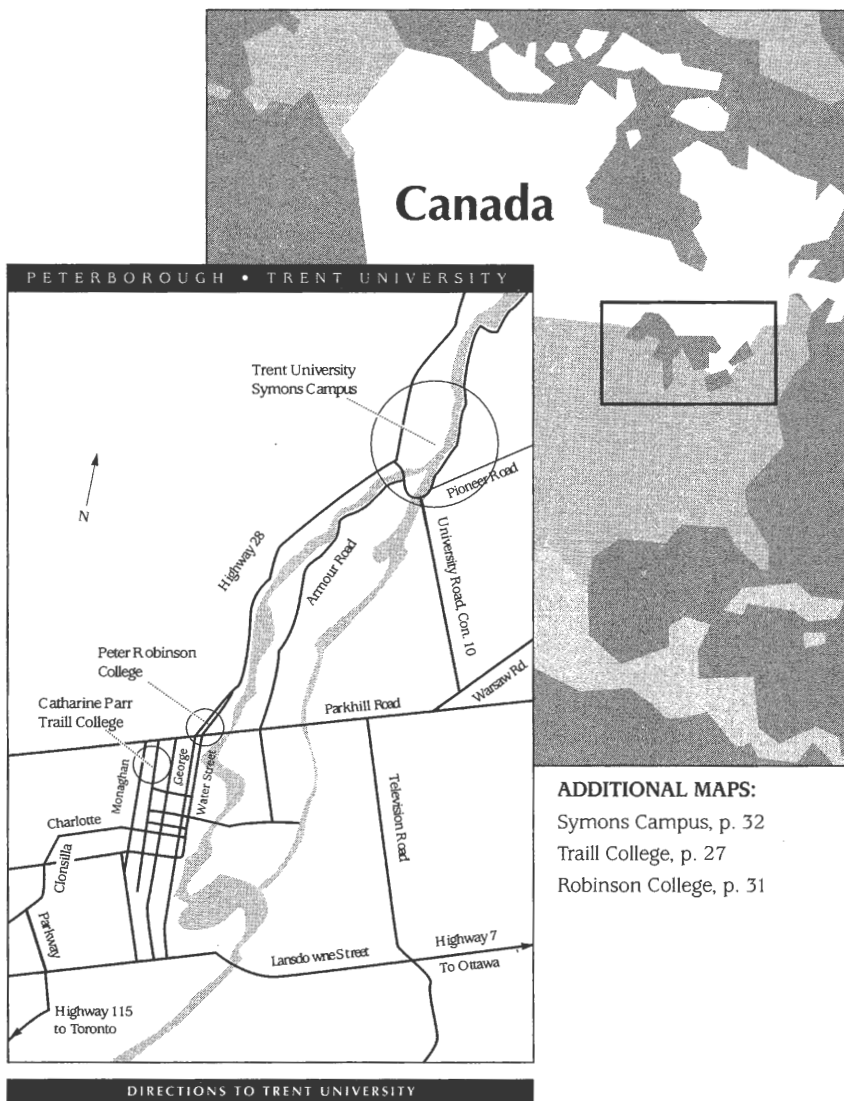
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Directory for correspondence and inquiries

PETERBOROUGH AREA CODE (705)	PHONE	FAX	E-MAIL	WEB
Academic Skills	748-1720	748-1830	acdskills@trentu.ca	www.trentu.ca/acadskills
Admissions, inquiries and application	748-1215	748-1629	liaison@trentu.ca	www.trentu.ca/admissions
Alumni Office	748-1399	748-1655	alumni@trentu.ca	www.trentu.ca/alumni
Athletics & recreation	748-1257	748-1447	athletics@trentu.ca	www.trentu.ca/athletics
Bookstore	748-1700	748-5802	bookstore@trentu.ca	www.trentu.ca/bookstore
Colleges & Advising	748-1736	748-1721	traill@trentu.ca	www.trentu.ca/colleges/traill.html
Catharine Parr Traill	748-1237	748-1581	champlain@trentu.ca	www.trentu.ca/colleges/champlain.html
Champlain	748-1229	748-1655	jbc@trentu.ca	www.trentu.ca/jbc
Julian Blackburn	748-1322	748-1630	eaton@trentu.ca	www.trentu.ca/colleges/eaton.html
Lady Eaton	748-1342	748-1335	otonabee@trentu.ca	www.trentu.ca/colleges/otonabee.html
Otonabee	748-1743	748-1795	robinson@trentu.ca	www.trentu.ca/colleges/robinson.html
Peter Robinson	748-1218	748-1029	communications@trentu.ca	www.trentu.ca/communications
Communications Office	748-1260	748-1209	CandC@trentu.ca	www.trentu.ca/conferences
Conference Services	748-1386	748-1563		www.trentu.ca/careers
Counselling and Careers	748-1243	748-1699		www.trentu.ca/dean
Dean of Arts and Science	748-1317	748-1564		
Fee payments	748-1524	748-1564	financialaid@trentu.ca	
Financial Aid	748-1245	748-1587	graduate@trentu.ca	www.trentu.ca/graduate
Graduate Studies	748-1481	748-1563	awalter@trentu.ca	www.trentu.ca/healthserv
Health Services	748-1769	748-1795	housing@trentu.ca	www.trentu.ca/housing
Housing, off-campus	(May to Sept.)	(all year)	(all year)	(all year)
International Program	748-1314	748-1626	tip@trentu.ca	www.trentu.ca/tip
Library	748-1391	748-1315		www.trentu.ca/library
Oshawa (Trent Office)	(905) 721-3003			
Parking	748-1328	748-1488	security@trentu.ca	www.trentu.ca/admin/Security.html
Part-time study inquiries	748-1229	748-1655	jbc@trentu.ca	www.trentu.ca/jbc
President's Office	748-1347	748-1657		
Registrar's Office	748-1215	748-1629	registrar@trentu.ca	
Registration	748-1215	748-1629	registrar@trentu.ca	
Scholarships	748-1215	748-1629	registrar@trentu.ca	
Security	emergency 748-1333			
	office 748-1328	748-1488	security@trentu.ca	www.trentu.ca/admin/Security.html
Special Needs	748-1281	748-1509	specialneeds@trentu.ca	www.trentu.ca/sno
	TDD 748-1482			
Student Central Government	748-1000			
Student employment	748-1386	748-1563	CandC@trentu.ca	www.trentu.ca/careers
Transcript orders	748-1215	748-1629		
Hotels and Transportation:				
Peterborough Kawartha Tourism	Local 742-2201	742-2494	travinfo@Peteboro.net	http://text.peterboro.net/~travinfo/
& Convention Bureau	Long distance 1 800-461-6424			
Buses: Greyhound	743-8045	748-5321	www.greyhound.ca	www.greyhound.ca
Peterborough Transit	745-0525			
Trentway-Wagar	748-6411			
Century Coach Lines (to/from Toronto Airport)	748-3961	748-6377		
Tour of Trent campus	748-1322	748-1629	liaison@trentu.ca	www.trentu.ca/tour
Walk Home Program	742-FOOT		security@trentu.ca	www.trentu.ca/admin/Security.html

HOW TO FIND US

**ADDITIONAL MAPS:**

Symons Campus, p. 32

Traill College, p. 27

Robinson College, p. 31

From Toronto

- Take Highway 401 east to 115/35
 - Follow 115 north and exit at "Peterborough - The Parkway"
 - Follow The Parkway until it ends at Clonsilla Avenue
 - Turn right (east) on Clonsilla, and continue to Water Street (Clonsilla becomes Charlotte St.)
 - Turn left (north) on Water St., and continue past intersection with Parkhill Road. Continue north past Riverview Park and Zoo and watch for the Trent University sign at Nassau Mills Road
 - Turn right onto Nassau Mills Rd.
 - Turn left into the main driveway
- The Registrar's Office/Tours Office is located in Blackburn Hall, the first building on your right

From Ottawa

- Follow Highway 7 west to Television Road
 - Turn right (north) on Television Rd. and continue to Parkhill Road
 - Turn left (west) on Parkhill and continue to Water Street
 - Turn right (north) on Water St., which turns into Highway 28 and watch for Trent University sign
 - Turn right onto Nassau Mills Road
 - Turn left into the main driveway
- The Registrar's Office/Tours Office is located in Blackburn Hall, the first building on your right

TRENT UNIVERSITY

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