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Cape Breton University
Academic Calendar 2011-2012

Disclaimer

When changes are made in program structure, a student already registered may choose to satisfy the new program requirements or to complete the program as it was when the student began his/her program if this is still possible and reasonable.

Cape Breton University (CBU) does not accept any responsibility for loss or damage suffered or incurred by any student as a result of suspension or termination of services, courses, or classes caused by reason of strikes, lockouts, riots, weather, damage to University property and any other cause beyond the reasonable control of CBU.

Each student bears the responsibility of ensuring that his/her course choices satisfy both the overall program regulations and the individual department regulations for specializations, concentrations or majors.

Official Statement

Cape Breton University produces its academic calendar in an online version. While the print and online versions are considered accurate at the time of production, the information in the calendar is under continuous review. CBU reserves the right to make such amendments and additions as deemed appropriate. As it readily allows for updates, the online academic calendar is the most current version. Where discrepancies exist between print and online versions, the online version shall be considered CBU's official statement.

For up-to-date online program and course information, admissions and academic regulations and more, go to **www.cbu.ca** and click on **Academic Calendar** in the links at the bottom of the page**.** For a list of important dates go to **www.cbu.ca** and click on **Important Dates** in the links at the bottom of the page.

About CBU

Cape Breton University is an ordinary (full) member of the Association of Universities and Colleges of Canada (AUCC), the Association of Canadian Community Colleges (ACCC) and Association of Atlantic Universities (AAU), as well as an Associate Member of the Association of Commonwealth Universities (ACU).

The CBU calendar is published by the Office of the Vice-President Student Services and Registrar.

For further information please contact:

Cape Breton University
P.O. Box 5300, 1250 Grand Lake Road,
Sydney, Cape Breton, NS B1P 6L2

www.cbu.ca

Student Service Centre Hours
Monday to Friday -- 8:30 am to 4:30 pm

General Contact Information

Student Service Centre Telephone..... (902) 563-1330

Toll Free 1-888-959-9995

Student Service Centre Fax ..... (902) 563-1371

CBU General Telephone..... (902) 539-5300

CBU General Fax ..... (902) 562-0119

Students' Union ..... (902) 563-1192

Administration ..... See Pages 204-207

NOTE: All extension numbers listed in the calendar can be reached directly by dialing the 563 exchange and then the four-digit extension number.

Emergency Preparedness

In case of on-campus emergency:

- If you are mobility impaired, identify yourself to fire wardens or others who can provide assistance.
- Follow instructions for evacuation as given by fire wardens, commissionaires or persons in charge.
- Do not use the elevators: Use the stairs.
- Proceed to the nearest designated meeting area and wait for further instructions.
- Do not re-enter buildings until "all clear" is given.

GETTING STARTED

What You Need to Know about CBU and this Calendar

1.) How to use this calendar

Read carefully! You are responsible for your own academic progress. That includes compliance with all academic, programs, departmental and financial regulations.

The Getting Started section provides some general guidelines and helpful tips. These offer a summary of the key things you need to know, with directions on where to find more details.

For more detailed and up-to-date information, check our website at **www.cbu.ca** and click on **Academic Calendar.**

2.) How to apply to CBU

Go to **www.cbu.ca** and click on **Admissions and Registration**. Follow the online instructions to apply online or print out and submit a form by fax or mail. For more information call the Student Service Centre at **(902) 563-1330** or toll-free

1-888-959-9995.

Send the completed application form as early as possible. CBU cannot guarantee applications received after August 1 will be processed for September registration.

Applications for the Bachelor of Education (BEd) program are accepted until January 10 for May admission. For more information contact (902) 563-1651.

Applications for the Bachelor of Science Nursing (BScN) program are accepted until February 28. Candidates are selected in March for classes beginning in September. For more information contact (902) 563-1944.

In January or February, high school students should ask their school for their Grade 11 final grades and Grade 12 first-semester grades. Grade 12 final grades should be submitted as soon as they are received.

Final admission will be granted when all relevant information is submitted. No application will be delayed or denied if all of the substantial information is supplied, requirements are met and there is capacity in the program.

The non-refundable application fee (paid by cheque, money order, Visa or MasterCard) must be included with the application.

Once accepted, all students will receive an acceptance letter that outlines the next steps. This letter will include instructions for opening an online student account at **www.cbu.ca/online**.

3.) How to register

ACADEMIC ADVISING

Academic advising is a requirement for all first-year students. Two Academic Advisors and an Academic Support Officer, located in the Learning Commons and Student Life Centre (B110) provide academic advising to first year students only. First-year students, as well as those beyond first year, may also make appointments for academic advising by using their online student accounts to book sessions with faculty members. Students beyond first year are not required to have academic advising.

PLACEMENT TESTS
All students planning to take calculus are required to complete a Calculus Readiness Test before registering in MATH1101 or MATH1105. Tests are held monthly from May to August. For more information, refer to the Calendar of Events.

REGISTRATION
Students may register for courses in one of three ways:

1. In person at the Student Service Centre on the main floor of the Marvin Harvey Building (formerly B-Block); or
2. By mail (form provided with registration package); or
3. By computer at **www.cbu.ca/online** (instructions provided in registration package)

For more information on registration visit **www.cbu.ca.**

4.) Program/course selection

Programs consist of combinations of courses. A student's course choices depend on the requirements of his/her degree, diploma or certificate program. The requirements are found in the program descriptions, organized by school.

For more information, visit **www.cbu.ca, Current Students - Academic Study.**

WORKSHEETS
Schools and departments offer worksheets to help students determine appropriate course selections that will help fulfill program requirements.

For more information call or visit the school secretaries.

For more information on adding or dropping courses visit **www.cbu.ca, Current Students - Academic Study.**

5.) Important regulations

Students are responsible for compliance with academic, program, departmental and financial regulations.

For general regulations, visit **www.cbu.ca, Current Students - Registration and Fees.**

Program and departmental policies can be found in the program descriptions listed by school in this academic calendar.

6.) Financial policies/fees

It is the responsibility of each student to be familiar with financial regulations. Academic fees include tuition and other mandatory fees that affect domestic and international students.

At the time of printing this calendar, fees for future academic years had not yet been determined. Visit http://www.cbu.ca/current-students/tuition-fees for up-to-date fees and detailed policies.

CLASS WITHDRAWAL AND FINANCIAL REFUNDS
A student who wishes to withdraw from one or more courses must do so officially, through the online student account or in writing.

For more information visit **www.cbu.ca** or call the Student Service Centre at **(902) 563-1330**; or, for a detailed schedule of refunds, visit http://www.cbu.ca/current-students/tuition-fees**.**

HEALTH PLAN – DOMESTIC STUDENTS
All full-time students (except international students) are automatically enrolled in the Student Health Plan. If proof of alternative coverage is presented to the Cape Breton University Students' Union (CBUSU), a student may opt out and the fee will be waived. Opting out must be done annually. The deadline to opt out is the last Friday in September.

For more information about the plan, fees and benefits, contact the CBUSU at **(902) 563-1192** or go to **www.cbusu.com**.

HEALTH PLAN – INTERNATIONAL STUDENTS
All international students must, as a requirement of registration, enroll in the University's international health plan or provide proof of Nova Scotia health insurance. For more information, visit **www.cbu.ca, Current Students - International Students** or call the International Student Advisors at **(902) 563-1671** or **(902) 563-1986**.

RESIDENCE AND MEAL PLANS
For detailed fees and policies on residence and meal plans, visit http://www.cbu.ca/current-students/tuition-fees.

7.) Graduation

Students meeting their program requirements by April will graduate in May. Otherwise, they will need to complete the requirements by August 30 to graduate in October. Students must apply to graduate and should note the deadlines listed at www.cbu.ca - **Important Dates**.

8.) Key dates

These are just a few of the dates that will affect your progress at university. For a complete list, visit **www.cbu.ca-Important Dates.**

January 10 – Final date for admission to May classes in the Bachelor of Education program (BEd).

February 28 – Final date for admission to September classes in the Bachelor of Science Nursing program (BScN).

March 1 – Applications for all programs received by this date will be considered for entrance scholarships.

May – Spring convocation (graduation) ceremony.

May – Start of classes for spring session.

July – Start of classes for summer session.

July – Online course registration for September is available on the first working day after the July 1 Canada Day holiday.

August 1 – Last day for guaranteed registration for September. Applications received after this date may not be processed in time.

September – Orientation begins on the first Thursday following the Labour Day holiday. Classes for the fall/winter term start on the Monday following Labour Day.

October – Fall convocation (graduation) ceremonies.

MESSAGES

President & Vice-Chancellor's Message

H. JOHN HARKER, LLD

Presidents of academic institutions are not unlike new students entering university. We may be a bit older and have slightly more life experience, but like you, are seeking and searching for innovation and excitement within the classroom and around the campus. I know that as President of Cape Breton University, I am interested in and committed to, these same goals that you are.

I want to see relevant and challenging thinking resonating through all our classrooms. I want to see students experience hands-on research as they work closely with their professors. I want to see students motivated and inspired by those around them so that their determination to succeed is firmly in place for life. I want to see CBU students proud of their athletic teams and cheering fellow students on the courts and in the fields. I want you, as a student, to cherish the traditions that have been established by those who have gone before you and at the same time, I encourage you to consider innovative ideas that will advance you personally and the institution as a whole.

I have told graduates in the past what I now think you need to hear at the outset of your academic experience at Cape Breton University - think broadly, plan boldly, live fully! We are ready to move forward with you to prepare for life in a global world. Whether you choose liberal arts, science, business, technology, education, health-related programs or any combination of them, you are bound to enjoy a personalized educational journey during your years at CBU and honouring that commitment is our pledge to you.

H. John Harker, LLD
President & Vice-Chancellor

Chancellor's Message

ANNETTE VERSCHUREN

As the Chancellor of Cape Breton University, I see this University evolving to meet the unique and diverse needs of a broad student community. I also see excellence in the research, instruction and programming being delivered by dedicated faculty and staff. The integration of students' interests, education and marketplace expectations is crucial locally, regionally, nationally and internationally, if graduates are to become productive and contributing leaders in a demanding and innovative world.

Cape Breton University is focused on developing leaders of industry, scientists, researchers, artists, educators, health care professionals and highly skilled business professionals. Students do receive rewarding and productive learning experiences that lead to independence and fulfilment. CBU graduates have gone on record over the years to state that they are among the most satisfied in Canada with the knowledge gained while attending this University. They are the true voice of approval and combined with every student on campus, the future voice of industry, government and our communities-at-large.

Cape Breton University students are prepared to meet and work within a global work environment because that is the commitment we make to them - and now to you. You can compete with the best and be the best. Whatever goals and commitment you as a student bring with you to university, those within CBU will, in turn, deliver an excellent education to support your academic experience. It is a wonderful time in your life - may it be all that you hope for!

Annette Verschuren
Chancellor, Cape Breton University

ABOUT CAPE BRETON UNIVERSITY

Let's begin with the end goal of all new students - graduation. At Cape Breton University, graduates have consistently ranked their overall educational, teaching and instruction experience as outstanding. Cape Breton University promises and delivers an exceptional educational experience for students. Our faculty, students and graduates are recognized nationally and internationally for innovative accomplishments from academic excellence to athletic prowess. These successes contribute to Cape Breton University's growing reputation for excellence both in and out of the classroom.

Located on Canada's stunning East Coast, CBU makes its home in the Cape Breton Regional Municipality, the largest urban centre on Cape Breton Island. With a population of 110,000 residents, the municipality boasts the amenities of a larger centre, with the welcoming, supportive atmosphere of a small town.

The Cape Breton University campus is home to a student population that hails from local, regional and international locations. CBU offers a comfortable and secure environment within a small campus community, which allows for a smooth transition to university life.

There is a long list of good reasons for choosing to study at CBU:

- A commitment to providing relevant, meaningful and accessible programs
- Solid study options in liberal arts, business, science and technology as well as education, health and wellness
- Low student/teacher ratios allowing for excellent classroom interaction
- Small class sizes that are the envy of other institutions
- Work/study co-op programs in many disciplines
- Excellent support services for students with special requirements
- International student services
- More than 70 student societies
- Outstanding undergraduate research opportunities
- Established scientific and research institutes
- Strong international partnerships
- A focus on innovative technology
- Student exchange opportunities
- A Mi'kmaq Resource Centre
- Four university residences
- An ever-expanding scholarship program
- An opportunity to cheer on the CAPERS – winners and contenders for numerous championships!

MISSION

To provide leadership and employ partnerships that assist learners and their communities to meet their educational, cultural and economic needs.

VISION

To be one of Canada's best universities, understood and respected for its uniqueness, sense of purpose, creativity in learning, the capabilities of its learners and the quality of its educational, training and discovery models. These put learners first in a community-based educational environment that identifies and celebrates humanistic values while embracing creativity and innovation for the common good.

CBU will realize its vision by:

- Providing learners with access to high quality learning programs and experiences which reflect, integrate and develop knowledge traditions of the liberal arts, business, sciences and technologies;
- Ensuring the continued pursuit of excellence in education, scholarship, service and innovation, while recognizing the diversity of learners and celebrating the contribution of all learners to the community of scholars; and
- Emphasizing partnerships with the people, cultures and communities of Cape Breton and expanding connections to the wider global community, its peoples and cultures.

VALUES

Shared values are fundamental to the success of the University in achieving its mission and realizing its vision. When pursuing its mission and vision, CBU will share values such as people, process, partnerships and flexible education, training and discovery models.

PRINCIPLES

CBU accepts that the principles of academic freedom, accountability, integrity, innovation and obligation to society are fundamental to the effective transfer of knowledge, scholarship, creativity, discovery, quality teaching and learning experiences that are of benefit to learners and their communities.

CALENDAR OF EVENTS

IMPORTANT DATES - 2011-2013

For the most up-to-date list of key dates, go to **www.cbu.ca** and click on **Important Dates**.

APRIL 2011

(For information on Registration 2011, go to www.cbu.ca)

5	Last day of classes - winter term.
6	In the event of campus closures due to winter storms, April 6 will be used as a make-up day. If usage is required, the class schedule will be determined by the Student Service Centre.
9	Examinations begin.
15	Co-op work term/Internship reports due.
20-30	Season of Plays (tentative dates - contact Boardmore Playhouse).
20	Examinations end.
22	Good Friday - CBU closed.
25	Easter Monday - CBU closed.
26	Final grades due by 9:00 a.m. in Student Service Centre.
29	Final grades accessible.

MAY 2011

(For information on Registration 2011, go to www.cbu.ca)

2	FINAL DATE TO APPLY FOR FALL GRADUATION.
2	Classes begin for students in the BEd program.
2	Classes begin - Term 3 (spring session).
5-15	Season of Plays (tentative dates - contact Boardmore Playhouse).
9	Graduation list posted at 1:00 p.m.
13	President's Convocation dinner.
14	Spring Convocation – 2:00 p.m.
23	Victoria Day - CBU closed.
27	Last day of classes for three-credit May courses.
30	Final grades for three-credit courses ending in May due by 9:00 a.m. in the Student Service Centre.
30	Classes begin for three-credit May-June courses.

JUNE 2011

(For information on Registration 2011, go to www.cbu.ca)

3	Final grades for three-credit May courses accessible.
24	Spring session ends.
27	Spring session final grades due by 9:00am in Student Service Centre.
27	Classes begin - Term 3 (summer session).

JULY 2011

(For information on Registration 2011, go to www.cbu.ca)

1	Canada Day – CBU closed.
4	Spring session final grades accessible.
4	Registration begins for fall/winter courses.
22	Classes end for students in the BEd program.
29	Final grades for BEd courses due by 9:00 a.m. in the Student Service Centre

CALENDAR OF EVENTS

AUGUST 2011

(For information on Registration 2011, go to www.cbu.ca)

1 Civic Holiday - CBU closed.
2 Applications for admission, transfer credit or PLA received after this date may not be processed in time for September registration.
5 Summer session ends.
8 Final grades for summer session courses due by 9:00 a.m. in Student Service Centre.
11 Summer session final grades accessible.
15 Co-op work term/Internship reports due.

SEPTEMBER 2011

(For information on Registration 2011, go to www.cbu.ca)
(The Calculus Readiness test for students registering in a calculus course will be held in September. Please check with the Mathematics Department for further details.)

5 Labour Day - CBU closed.
6 Orientation begins.
12 Classes begin.
17-18 Season of Plays Auditions – Contact the Boardmore Playhouse
23 FINAL DATE TO REGISTER FOR OR ADD A COURSE FOR FALL TERM
30 Final date to opt out of the Students' Union health plan.

OCTOBER 2011

1 Treaty Day.
10 Thanksgiving Day - CBU closed.
20-31 Season of Plays – (tentative dates - contact Boardmore Playhouse).
28 FINAL DATE FOR RETURNING HOSPITALITY AND TOURISM MANAGEMENT STUDENTS TO REGISTER FOR THE SUMMER INTERNSHIP.
28 Hospitality and Tourism Management students – Deadline for the submission of journal and other required documentation.
28 FINAL DATE TO WITHDRAW FROM A FALL TERM (THREE CREDIT) COURSE WITHOUT ACADEMIC PENALTY. FINANCIAL PENALTY WILL APPLY.
29 Fall Convocation - 2:00 p.m.

NOVEMBER 2011

1 FINAL DATE TO APPLY FOR SPRING GRADUATION.
10 CBU Memorial Service.
11 Remembrance Day – CBU closed.
14 Hospitality and Tourism Management students - research project to be submitted to Industry Internship Co-ordinator.
24 Hospitality and Tourism Management Job Fair.
20-30 Season of Plays – (tentative dates - contact Boardmore Playhouse).

DECEMBER 2011

2 Last day of classes - fall term.
6 Examinations begin.
15 Co-op work term/Internship reports due.
16 Examinations end.
19 Final grades due by 9:00 a.m. in the Student Service Centre. Grades received after this date will not be processed until January 2012.
21 Fall grades accessible.
23 CBU offices closed at 4:00 p.m.

CALENDAR OF EVENTS

JANUARY 2012

(The Calculus Readiness test for students registering in a calculus course will be held in January. Please check with the Mathematics Department for further details.)

3	CBU re-opens.
3	Registration for winter term.
4	Classes begin - winter term.
13	Payment deadline for winter term fees.
17	FINAL DATE TO REGISTER FOR OR ADD A COURSE FOR WINTER TERM.
20-30	Season of Plays – (tentative dates - contact Boardmore Playhouse).
31	FINAL DATE TO WITHDRAW FROM A FULL-YEAR (6 CREDIT) COURSE WITHOUT ACADEMIC PENALTY. FINANCIAL PENALTY WILL APPLY.

FEBRUARY 2012

20-24	Reading week (no classes).
20-28	Season of Plays – (tentative dates - contact Boardmore Playhouse).

MARCH 2012

1	Deadline for the receipt of applications for admission to be considered for entrance scholarship.
2	FINAL DATE TO WITHDRAW FROM A WINTER TERM (3 CREDIT) COURSE WITHOUT ACADEMIC PENALTY. FINANCIAL PENALTY WILL APPLY.
13-26	One Act Play Festival (tentative dates - contact Boardmore Playhouse).

APRIL 2012

(For information on Registration 2012, go to www.cbu.ca)

3	Last day of classes - winter term.
4	In the event of campus closures due to winter storms, April 4 will be used as a make-up day. If usage is required, the class schedule will be determined by the Student Service Centre.
6	Good Friday - CBU closed.
9	Easter Monday - CBU closed.
10	Examinations begin.
15	Co-op work term/Internship reports due.
17-30	Season of Plays (tentative dates - contact Boardmore Playhouse).
20	Examinations end.
23	Final grades due by 9:00 a.m. in the Student Service Centre.
25	Final grades accessible.

MAY 2012

(For information on Registration 2012, go to www.cbu.ca)

7	FINAL DATE TO APPLY FOR FALL GRADUATION.
7	Classes begin for students in the BEd program.
7	Classes begin - Term 3 (spring session).
7	Graduation list posted at 1:00 p.m.
8-18	Season of Plays (tentative dates - contact Boardmore Playhouse).
11	President's Convocation dinner.
12	Spring Convocation - 2:00 p.m.
21	Victoria Day - CBU closed.
31	Last day of classes for three-credit May courses.

JUNE 2012

(For information on Registration 2012, go to www.cbu.ca)

4	Classes begin for three-credit June courses.
4	Final grades for three-credit courses ending in May due by 9:00am in the Student Service Centre.

6 Final grades for three-credit May courses accessible.
29 Spring session ends.

JULY 2012

(For information on Registration 2012, go to www.cbu.ca)

2 Holiday in observance of Canada Day – CBU closed.
3 Classes begin – Term 3 (Summer session).
3 Spring session grades due in Student Service Centre.
4 Registration begins for fall/winter courses.
5 Spring Session final grades accessible.
27 Classes end for students in the BEd program.

AUGUST 2012

(For information on Registration 2012, go to www.cbu.ca)

1 Applications for admission, transfer credit or PLA received after this date may not be processed in time for September registration.
3 Final grades for BEd courses due by 9:00 am in the Student Service Centre.
6 Civic Day - CBU closed.
10 Summer session ends.
13 Final grades for summer session courses due in Student Service Centre.
15 Final grades accessible.
15 Co-op work term/Internship reports due.

SEPTEMBER 2012

(For information on Registration 2012, go to www.cbu.ca)

(The Calculus Readiness test for students registering in a calculus course will be held in September. Please check with the Mathematics Department for further details.)

3 Labour Day - CBU closed.
4 Orientation begins.
10 Classes begin.
15-16 Season of Plays Auditions – Contact the Boardmore Playhouse
21 FINAL DATE TO REGISTER FOR OR ADD A COURSE FOR FALL TERM
28 Final date to opt out of the Students' Union health plan.

OCTOBER 2012

1 Treaty Day.
8 Thanksgiving Day - CBU closed.
20-31 Season of Plays (tentative dates - contact Boardmore Playhouse).
26 FINAL DATE FOR RETURNING HOSPITALITY AND TOURISM MANAGEMENT STUDENTS TO REGISTER FOR THE SUMMER INTERNSHIP.
26 Hospitality and Tourism Management students – Deadline for the submission of journal and other required documentation.
27 Fall Convocation – 2:00 p.m.

NOVEMBER 2012

1 FINAL DATE TO APPLY FOR SPRING GRADUATION.
2 FINAL DATE TO WITHDRAW FROM A FALL TERM (THREE CREDIT) COURSE WITHOUT ACADEMIC PENALTY. FINANCIAL PENALTY WILL APPLY.
8 CBU Memorial Service.
11 Remembrance Day
12 Holiday in Observance of Remembrance Day – CBU closed.

19 Hospitality and Tourism Management students - research project to be submitted to Industry Internship Co-ordinator.
20-30 Season of Plays (tentative dates - contact Boardmore Playhouse).
22 Hospitality and Tourism Management Job Fair.

DECEMBER 2012

3 Last day of classes – fall term.
6 Examinations begin.
15 Examinations end.
15 Co-op work term/Internship reports due.
17 Final grades due by 9:00 a.m. in the Student Service Centre. Grades received after this date will not be processed until January 2013.
19 Fall grades accessible.
21 CBU offices closed at 4:00pm.

JANUARY 2013

(The Calculus Readiness test for students registering in a calculus course will be held in January. Please check with the Mathematics Department for further details.)

2 CBU re-opens.
2 Registration for winter term.
7 Classes begin - winter term.
8 Calculus Readiness test at 4:30 p.m. in CE325 for students registering in a calculus course. Students must write the test before registering in Math 111 or 121.
11 Payment deadline for winter term fees.
18 FINAL DATE TO REGISTER FOR OR ADD A COURSE FOR WINTER TERM.
20-31 Season of Plays (tentative dates - contact Boardmore Playhouse).

FEBRUARY 2013

1 FINAL DATE TO WITHDRAW FROM A FULL-YEAR (6 CREDIT) COURSE WITHOUT ACADEMIC PENALTY. FINANCIAL PENALTY WILL APPLY.
18-22 Reading week (no classes).
20-28 Season of Plays (tentative dates - contact Boardmore Playhouse).

MARCH 2013

1 Deadline for the receipt of applications for admission to be considered for entrance scholarships.
1 FINAL DATE TO WITHDRAW FROM A WINTER TERM (3 CREDIT) COURSE WITHOUT ACADEMIC PENALTY. FINANCIAL PENALTY WILL APPLY.
12-25 One-Act Play Festival (tentative dates - contact Boardmore Playhouse).
29 Good Friday – CBU closed.

APRIL 2013

(For information on Registration 2013, go to www.cbu.ca)

1 Easter Monday – CBU closed.
9 Last day of classes - winter term.
10 In the event of campus closures due to winter storms, April 6 will be used as a make-up day. If usage is required, the class schedule will be determined by the Student Service Centre.
13 Examinations begin.
15 Co-op work term/Internship reports due.
20-30 Season of Plays - (tentative dates - contact Boardmore Playhouse).
24 Examinations end.
26 Final grades due by 9:00 a.m. in the Student Service Centre.
30 Final grades accessible.

CALENDAR OF EVENTS

MAY 2013

(For information on Registration 2013, go to www.cbu.ca)

1	FINAL DATE TO APPLY FOR FALL GRADUATION.
5-15	Season of Plays - (tentative dates - contact Boardmore Playhouse).
6	Classes begin - Term 3 (spring session).
6	Graduation list posted at 1:00 p.m.
6	Classes begin for students in the BEd program.
10	President's Convocation dinner.
11	Spring Convocation – 2:00 p.m.
20	Victoria Day - CBU closed.
31	Last day of classes for three-credit May courses.

JUNE 2013

(For information on Registration 2013, go to www.cbu.ca)

3	Classes begin for three-credit June courses.
3	Final grades for three-credit courses ending in May due by 9:00 a.m. in the Student Service Centre.
5	Final grades for three-credit May courses accessible.
28	Spring session ends.

JULY 2013

(For information on Registration 2013, go to www.cbu.ca)

1	Canada Day – CBU closed.
2	Classes begin – Term 3 (summer session).
2	Spring session grades due in the Student Service Centre.
3	Registration begins for fall/winter courses.
4	Spring session final grades accessible.
26	Classes end for students in the BEd program.

AUGUST 2013

(For information on Registration 2013, go to www.cbu.ca)

1	Applications for admission, transfer credit or PLA received after this date may not be processed in time for September registration.
2	Final grades for BEd courses due by 9:00 am in the Student Service Centre.
5	Civic Holiday - CBU closed.
9	Summer session ends.
12	Final grades for summer session courses due in the Student Service Centre.
14	Final grades accessible.

Admission Requirements for Cape Breton University Undergraduate Programs

Program	Required Courses			Additional	Required	Recommended Courses	
	English	Math	Science	12 AD or AC	Average	Math	Physics
Bachelor of Arts	12 AD or AC			4	60%		
Bachelor of Arts Community Studies	12 AD or AC			4	60%		
Bachelor of Business Administration	12 AD or AC	12 AD or AC		3	60%		
Bachelor of Hospitality and Tourism Management	12 AD or AC	12 AD or AC		3	60%		
Bachelor of Science and Bachelor of Science Community Studies	12 AD or AC	12 AD or AC	2 - 12 AD or AC[1]	1	60%	12 PC	
Bachelor of Science Nursing	12 AD or AC	12 AD or AC	2 - 12 AD or AC[2]	1	65% Gr. 11 and 12		
Bachelor of Engineering Technology (Electronics & Controls)	12 AD or AC	12 AD or AC	2- 12 AD or AC[1]	1	60%		12 AD or AC
Bachelor of Engineering Technology (Environmental Studies)	12 AD or AC	12 AD or AC	2-12 AD or AC[4]	1	60%		12 AD or AC
Bachelor of Engineering Technology (Manufacturing)	Completion of acceptable Technology diploma. Contact the Engineering department for informaiton.						
Bachelor of Engineering Technology (Petroleum)	12 AD or AC	12 AD or AC	2-12 AD or AC[4]	1	60%		12 AD or AC
Bachelor of Technology (Emergency Management)	Completion of degree or diploma in Environmental Studies or Public Health						
Bachelor of Technology (Nautical Science)	Admission through the Canadian Coast Guard College						
Bachelor of Health Sciences (Public Health)	12 AD or AC	12 AD or AC	Chemistry and 1- 12 AD or AC[3]	1	60%		12 AD or AC
Bachelor of Computer Science (Transfer)	12 AD or AC	12 AD or AC	1 - 12 AD or AC[1]	2	60 % with 75% in math & science	12 PC	
Bachelor of Engineering (Transfer)	12 AD or AC	12 AD or AC	Physics and 1 - 12 AD or AC[5]	1	60%	12 PC	
Bachelor of Science in Human Nutrition (Transfer)	12 AD or AC	12 AD or AC	2 - 12 AD or AC [6]	1	60%		
Bachelor of Science in Human Kinetics (Transfer)	12 AD or AC		2 - 12 AD or AC[7]	2	60%		
Bachelor of Arts in Human Kinetics (Transfer)	12 AD or AC		2 - 12 AD or AC[7]	2	60%		

Legend
AD - advanced
AC - academic
PC - pre-calculus

[1] Includes biology, chemistry, geology, and physics. (Environmental Science 12 can be used with biology, chemistry or physics).
[2] Includes biology, chemistry, and physics with biology and chemistry recommended.
[3] Additional sciences from biology, geology and physics.
[4] Includes biology, chemistry, geology, and physics with chemistry and physics recommended. (Environmental Science 12 can be used with biology, chemistry or physics).
[5] Additional sciences from biology, chemistry and geology.
[6] Includes biology, chemistry, geology, and physics with biology and chemistry recommended.
[7] Includes biology, chemistry, geology, mathematics, and physics.

ADMISSION REQUIREMENTS FOR CBU

ADMISSION REQUIREMENTS FOR UNDERGRADUATE PROGRAMS

The Admission Requirements form part of the Academic Regulations of Cape Breton University.

General Undergraduate Admission Requirements

An overall average of 60% is required for all students applying to most CBU credit programs based on high school performance. Additional requirements may apply to specific programs.

Program-specific admission requirements are summarized in the table on the previous page.

If space permits, CBU will accept all candidates who can verify that they have met the minimum entry requirements established by CBU for the programs in which they wish to enroll.

Note: CBU does not guarantee that applications completed after August 1, will be processed for September registration.

Admission Policy for International Baccalaureate (IB) Students

The IB Diploma is accepted as a credential for admission to degree programs. The minimum IB diploma score needed for admission is 24. IB Certificate applicants will be considered individually based on coursework. IB students must have completed IB English and four other IB courses. Additional requirements may apply to specific programs. Program specific admission requirements must be adhered to.

Admission Paths

Students may enter Cape Breton University by any of three paths, subject to restrictions of space and program capacity.

1. High school graduates who satisfy the admission requirements of their chosen program.
2. Students who transfer from another post-secondary institution and who are in good standing at that institution and who satisfy the admission requirements for their chosen program. Transfer students may be able to obtain credit in their CBU programs for courses taken elsewhere.
3. Students may also be admitted as non-traditional learners.

Students who enter CBU through any of the above paths and who have not made a final decision in a program may register as students in No Specific Program.

Applicants will be required to submit official documents (e.g. transcripts from other institutions) when they apply for admission. Normally these documents are sent directly from the other institutions to CBU.

Students will also require the approval of the relevant School Dean to register at another university or college while attending CBU.

Early Fall Admission

Students may apply for early admission, commencing September 15 of the year in which they are registered in Grade 12.

Early fall admission is available to those students who have an average of at least 75% in Grade 11 and who are currently registered in the Grade 12 courses that satisfy the admission requirements for the academic programs to which they are applying.

Applicants to the Bachelor of Science Nursing program must have an overall average of 80% in Grade 11 courses, with a minimum grade of 80% in math and sciences and be registered in the required Grade 12 courses.

ADMISSION REQUIREMENTS

Students applying for early fall admission must include with their application their final Grade 11 marks and proof of registration in their Grade 12 courses (for both semesters where applicable). Admission will be conditional, pending the successful and satisfactory completion of program requirements.

All students who are offered early fall admission must submit an official high school transcript to the Admissions Office by June 30, of their graduating year or the offer of admission may be withdrawn.

High School Transcript Self-report of Grades

Students have the opportunity to self-report their transcript information which CBU will use to assess admission to degree programs. High school applicants must report final grades for all Grade 11 and Grade 12 courses completed, along with all available mid-year grades for courses in progress. Information will be assessed and applicants will be advised of their admission status.

Offers of admission based on self-reported transcript information will be verified against the final official transcript which must be submitted to the Student Service Centre by June 30. It is expected that all applicants will accurately report their course information and must satisfy all CBU admission and specific program requirements in their final results, otherwise the offer of admission may be withdrawn.

Please note the information below if you wish to be considered for an entrance scholarship.

Entrance Scholarships

An admission application and all required supporting documents, including a high school transcript showing both Grade 11 marks and mid-year and/or first semester Grade 12 marks, must be received in the Student Service Centre by March 1, in order to be considered for an entrance scholarship. For more information on scholarships and bursaries, criteria, policies and required supporting documents, visit **www.cbu.ca/scholarships** or email: **awards@cbu.ca**.

General Admission Requirements for Students from Outside of Nova Scotia

For all provinces except Quebec, students who have successfully completed university preparatory programs will be admitted, subject to the same grade and average requirements expected of Nova Scotia students and subject to program capacity. For Quebec students, the entrance requirement is one year of study at a CEGEP, with a 65% average.

Present course code equivalencies from other Canadian provinces are:

Newfoundland	**New Brunswick**	**Prince Edward Island**	**Ontario**	**Quebec**
English 3201 Mathematics 3204 or 3205 Sciences 3200 Others 3200	121, 122 or 120	621	OAC level or Grade 12U or M courses	One year of CEGEP study with a 65% average is equivalent to Nova Scotia Grade 12.
Manitoba	**Saskatchewan**	**Alberta**	**British Columbia**	**Nunavit/NWT**
40s	30s	30s	12	30s

INTERNATIONAL APPLICANTS

Before Your Arrival

International students should refer to the Citizenship and Immigration Canada (CIC) website for documentation and information required for studying in Canada. As well, all pertinent forms are available on this government website for downloading.

It is important for students to plan their academic career abroad by obtaining (1) a passport, (2) a letter of acceptance from Cape Breton University, (3) securing adequate financial support for your stay in Canada and (4) medical clearance, if necessary. Depending on country of origin, students may be required to have a Temporary Resident Visa (TRV). This can be checked by visiting the Citizenship and Immigration website.

Students may study in Canada for six months or less on a Temporary Resident Visa. However, if they intend to study for more than six months in Canada, they should be aware that they must have a valid study permit indicating eligibility to study at Cape Breton University before travelling to Canada.

Study permit application forms may be found online at the Citizenship and Immigration website.

Generally, study permits are granted by the Canadian Consulate after an applicant fills out an application form, pays the application fee, presents a letter of acceptance from a Canadian university, shows evidence of the ability to support him or herself from a financial institution or guarantor and offers details concerning his/her intended departure from Canada.

International students are eligible to work off-campus. Students should refer to the Immigration Canada website for specific details on how to apply for an off-campus work permit.

International students must show proof (a study permit) that they have received official permission from Citizenship and Immigration Canada to study in Canada BEFORE registering for courses at CBU.

Transfer students from other Canadian institutions must ensure that their current study permit allows for transfer to CBU. If changes are required to the study permit, then these modifications should be made through Citizenship and Immigration Canada prior to arrival at CBU. Failure to do so may result in inability to register for courses, a fine or even deportation.

Further information on applying to change conditions or extend your stay in Canada may be found on the Citizenship and Immigration website.

International students registering for the first academic term (September to December) are required to pay all tuition and applicable fees at the time of registration. International students registering for both academic terms (September to April) are required to pay 60% of all tuition and fees at the time of registration. The remaining 40% must be paid no later than January 15. International students in residence are required to pay all residence accommodation and meal plan fees at the beginning of each term. Failure to comply with this regulation will put immigration status at risk.

It is important for international students to plan where they will live when they come to study in Canada. If the intention is to live on campus, a $250 confirmation fee for the residence must be paid in advance of arrival-immediately following the receipt of an Offer of Accommodation Letter" from the Residence Manager. Please notify the Residence Manager of fee submission by email and the planned arrival date to **doug_connors@cbu.ca**.

If students are planning to live off campus, they must make reservations ahead of time to stay in a hotel after arrival in Canada. For a listing of hotels, please go to **http://www.canadianhotelguide.com/ca/Nova_Scotia-hotels.html.**

When You Arrive in Canada

Students must have an official letter of acceptance from Cape Breton University to show immigration officials in Canada. They must also have a valid passport, a Temporary Resident Visa, if necessary, and a study permit. All three documents

should have an expiry date on them. Students should ensure that the allowable period for residence and study in Canada match the dates they wish to be living in Canada.

It is possible to renew important documents while in Canada. Should students decide to renew their passports while in Canada, they should contact the proper embassy or consulate at least three months before the passport expiration date.

Note: If any circumstances should change with regard to studies, funding, or documentation, students must contact the CIC Call Centre immediately at 1-888-242-2100 to avoid placing immigration status at risk.

During students stay in Canada, they may have accidents or become ill. Health care in Canada can be expensive. Canadian immigration law mandates that international students must be responsible for all health care costs incurred on Canadian soil. Therefore, it is compulsory for international students to purchase health insurance from CBU at the time of registration.

After 13 consecutive months of residence in Nova Scotia, international students are eligible to apply for free provincial medical services insurance (MSI). MSI will only cover provincial health care services within Nova Scotia for one year. International students must re-apply each year for additional free provincial health care coverage. MSI covers physician care and hospital care in a ward. The provincial health care plan does not cover extended health care costs of prescription drugs, dental or normal vision care. It is important to carry the Nova Scotia Health Card at all times.

Admission

International applications will be considered on an individual basis. CBU does not guarantee that application files completed after March 31, will be processed for September registration.

Please contact the Admissions Office for more information.

Requirements

UNITED STATES AND US BASED SYSTEMS

United States (US) and US Based Systems students who have successfully completed a high school university entrance program with 16 points, including four courses in English, will be considered for admission. Program requirements will apply. Results of Scholastic Aptitude Tests (SAT) or tests of the College Entrance Examination Board (CEEB) must be submitted.

BRITISH BASED SYSTEMS (GCE AND GCSE)

Graduates from senior secondary school are required to have five GCE or GCSE subjects including English, with at least two subjects at the advanced level. A grade of C or higher is required in each course. Where CBU program admission regulations require specific subjects, these must be included among the five.

OTHER COUNTRIES

For most countries, CBU considers the same academic requirements that are required for university entrance in that country – that is, successful graduation from an academic secondary school program or equivalent.

English Language Proficiency

English is the primary language of instruction at Cape Breton University. It is essential that all students have an adequate knowledge in the areas of reading, writing, listening and speaking in the English language in order for them to be successful in their studies. While this policy outlines CBU's English language proficiency requirements for the purposes of admission, it remains the responsibility of all students to ensure that their English is at a level of accomplishment necessary for their particular programs and specific requirements.

Applicants who meet Cape Breton University's academic requirements, but who are not able to demonstrate English language proficiency at the time of application, may be offered a conditional admission. With an offer of conditional admission applicants can apply for a study permit (visa). However, until applicants have met the English language proficiency requirements they may not begin their university level studies.

ADMISSION REQUIREMENTS

Applicants whose first language is not English must provide documentation to show that CBU's English language proficiency requirements have been met. Proof of proficiency may be provided by one of the following:

Previous Education in English:

- Successful completion of at least two years of academic instruction at a secondary institution, as recognized by Cape Breton University, where English is the primary language of instruction, or
- Successful completion of at least 30 credit hours (or equivalent) at a post-secondary institution, as recognized by Cape Breton University, where English is the primary language of instruction.

Official Testing Scores: (Please arrange to have test results sent to Cape Breton University from one of the following agencies.)

- TOEFL score of 550 (paper test), 213 (computer test), or 80 (internet test). See www.ets.org, or
- IELTS score of 6.5 with no band below 6.0. See www.ielts.org, or
- CAEL score of 60, www.cael.ca, or
- MELAB score of 85, www.melab.ca, or
- CanTEST score of 4.5 (reading & listening), 4.0 (writing) see www.olbi.uottawa.ca/en/cantest.php.

English Language Training

Cape Breton University has partnerships with English language training institutions. Students who successfully complete one of these programs are deemed to have met CBU's English language proficiency requirements without further testing required. Please visit our web site at www.cbu.ca/admissions for further information.

ADMISSION OF STUDENTS WITH LEARNING DIFFERENCES

CBU recognizes that individual students may learn differently and this recognition is reflected in its teaching strategies and methods of evaluation. Students who enter CBU who self-identify themselves as learners with exceptional needs will be provided with alternate academic support, so far as possible, within the resources of CBU. For more information contact the Jennifer Keeping AccessAbility Centre at **(902) 563-1404 (voice)** or **(902) 539-4772 (TTY).**

ADMISSION REQUIREMENTS FOR NON-TRADITIONAL LEARNERS

Students who do not meet the usual qualifications for entrance will be admitted to CBU as Non-Traditional Learners, subject to program requirements and program capacity provided they:

- Have been out of high school for two years;
- Have completed at least Grade 10; and
- Are at least 20 years of age.

CREDIT RECOGNITION FOR OUTSTANDING ENTRY STUDENTS FROM HIGH SCHOOL

Advanced Credit Recognition for IB Students

Students admitted to CBU who have completed the IB Diploma are eligible to receive a maximum of 30 credits for IB courses completed at the higher level with a minimum grade of 5.

- Credit will be awarded on a course by course basis.
- A maximum of 18 credits can be awarded for Standard Level courses with a minimum grade of 5.
- Students have the option to forgo credit.

IB Certificate holders are eligible to receive university credit to a maximum of 18 credits for higher level courses or standard level courses on a course by course basis subject to a minimum score of 5.

IB Program in Math

Students who complete an IB course in mathematics with a minimum score of 5 shall be exempt from the Calculus Readiness test.

OR

Completion of a Grade 12 honours course with a mark of 85% or higher and successful completion of an Outstanding Entry Student Examination. This examination is prepared and graded by an instructor in the discipline. Success in the examination means that the department and the dean are confident that the student's knowledge is equivalent to that of a student who has successfully completed the introductory level of that course at CBU.

From Other Than High School

CBU recognizes extra-institutional learning and may grant credit for learning experiences acquired outside an educational institution. Students may obtain credit for such prior learning in either of two ways:

1. By presenting evidence demonstrating that the student has mastered the material covered in the course in question. The Dean of the appropriate academic school is responsible for ensuring that the relevant faculty member appraises such evidence of prior learning.
2. By challenging a course with the approval of the relevant school dean.

Credit Transfer

The transfer of credit refers to the acceptance of courses by CBU from another institution (external transfer) or from one CBU program to another program (internal transfer). All external credit arrangements are administered by the Student Service Centre, in consultation with the dean and the appropriate department. All internal credit arrangements are administered by the academic schools in consultation with the Student Service Centre.

Students seeking transfer credit assessments must submit the Application for Transfer Credit Assessment with the non-refundable application fee to the Student Service Centre. Applications are available at the Student Service Centre or at **www.cbu.ca/student-services/forms.** Transfer credits are not activated until registration. Applications received after August 1, cannot be guaranteed for processing for September registration.

External Transfer

All first- and second-year credit courses offered at all other Canadian universities will be accepted for credit at CBU, with the following limitations:

- A minimum of 50% of the courses must be completed at CBU in a degree, diploma or certificate program, unless stated otherwise in the program descriptions.
- Credit transfer is distinct from admission and decisions with regard to admission remain the prerogative of CBU;
- The specific program requirements of CBU must be met. An otherwise acceptable transfer credit may not be usable in a particular program of study,
- Students must also meet any requirements with regard to grades. External credits will be treated identically with those of CBU students who move from one program to another within the institution. If a grade of 60% is required in a CBU prerequisite course, for example, then a 60% grade will also be required in a transfer course.

A dean, in consultation with the Registrar and the department, may approve courses beyond the first and second year levels for credit transfer in degree, diploma and certificate programs, bearing in mind that at least 50% of courses must be completed at CBU.

ADMISSION REQUIREMENTS

CBU has entered into a variety of special agreements with other institutions and such agreements often provide for extended credit transfer arrangements within specific CBU programs. For general information on such arrangements, contact the Student Service Centre.

Prior Learning Assessment and Recognition

Cape Breton University recognizes the value of both formal and informal learning and may grant academic credit for skills and knowledge gained outside traditional studies. Moreover, some kinds of knowledge may not be feasibly assessed through course challenges. In such cases, students may request a Prior Learning Assessment (PLA). Because the learning evaluated in a PLA occurs outside the University, PLA credits do not count towards the University's residency requirements.

Students applying for PLA credit must submit a detailed portfolio outlining their relevant experience and demonstrating how it has led to knowledge equivalent to university credit. The Student Service Centre will forward the portfolio to the relevant dean who will, in turn, send it to the academic department best able to evaluate it. The department will make a recommendation to the dean, and the dean will send his/her decision to the Student Service Centre.

If necessary, the department may ask the applicant for further information regarding the portfolio itself, formal credentials, or other details. The department may also request demonstration of skills, an interview with the applicant, or other reasonable means of assessing the application.

Students seeking assessment for PLA credits must submit the Application for Prior Learning Assessment and the non-refundable application fee. If credits are awarded, a fee equivalent to 50% of the tuition for those credits will be assessed. PLA credits are not activated until registration and required tuition is paid

Applications are available at the Student Service Centre or at **www.cbu.ca/student-services/forms**. Please contact the Manager of Admissions at **(902) 563-1117** or visit the Student Service Centre for more information.

ADMISSION PROCEDURES

Application for admission to Cape Breton University may be made online at www.cbu.ca/apply. Forms can be downloaded by visiting www.cbu.ca/apply/applications. Applications may also be made through the Student Service Centre on the designated application forms.

Correspondence regarding admission should be addressed to:

Admissions
Student Service Centre
Cape Breton University
PO Box 5300, 1250 Grand Lake Road
Sydney, Nova Scotia
B1P 6L2
Phone: (902) 563-1330
Fax: (902) 563-1371
Email: admissions@cbu.ca

Steps to Full-Time Admission for Canadian High School Students

The following steps need to be completed In order to be considered for full-time admission:

- Students may apply online at www.cbu.ca/apply. Otherwise, students should send the completed application form (available from the Student Service Centre or online at **www.cbu.ca/apply/applications**) as early in the year as possible, since applications received after August 1, cannot be guaranteed processing for September registration.

ADMISSION REQUIREMENTS

Students may apply online at **www.cbu.ca/apply**. The application for admission serves as the application for scholarships.

- Students applying from high school should ask their schools to send their Grade 11 final grades and their Grade 12 first semester grades, or if a non-semestered school, mid-term grades. Grade 12 final evaluations should be submitted as soon as they are issued to the student. Grade 11 final grades will be considered as supporting documentation in the application.
- Students who may meet the requirements for early admission may review our policy here.
- Applications will be considered as soon as they are received, and preliminary admission will be granted on the basis of the information provided if there is capacity in the program sought and if the information to date is complete. Final admission decisions will be made when all relevant information is submitted. No application will be delayed or denied if all of the substantial information is supplied, if the requirements are met and if there is capacity in the program sought.
- The non-refundable application fee (cheque, money order, Visa or MasterCard) should be attached to the application.

Steps to Full-Time Admission for Students Transferring from Other Universities and Colleges

The same steps for full-time admission for high school students above should be followed, with this difference: the student's high school should send the final grade 11 and 12 results and the university or college should send an official transcript.

Students seeking credit from previous post-secondary studies must apply for a Transfer Credit Assessment by submitting a Transfer Credit Assessment application (available at the Student Service Centre or online at **www.cbu.ca/student-services/forms**), along with the assessment fee and official transcripts from institutions from which they are seeking transfer credit.

Transfer Credit Applications received after August 1, cannot be guaranteed processing for September registration.

Steps to Part-Time Admission

As indicated elsewhere in these guidelines, CBU makes no fundamental distinction between full-time and part-time students. Technically, students are considered part-time if they are enrolled in fewer than three full-time course equivalents during the fall-winter session. As well, admission requirements for part-time students are no different from the admission requirements for any other students.

Residence

For information on application to residence, visit **www.cbu.ca/residence.**

ARTICULATION AGREEMENT WITH COLLEGES

Articulation agreements exist with many colleges, such as the Nova Scotia Community College, New Brunswick Community College and College of the North Atlantic (Newfoundland), whereby students can receive credit toward diplomas and degrees at CBU for courses and programs completed at these institutions. Details about specific program transfer arrangements are available from the Student Service Centre or the appropriate school dean at CBU. Students must apply for and be offered admission and register at CBU before transfer credits are granted.

INTERNAL TRANSFERS

INTERNAL TRANSFER CREDIT FOR SCHOOL OF ARTS AND SOCIAL SCIENCES

Transfer from a Diploma to Bachelor of Arts Degree

All Diploma in Engineering Technology courses listed for transfer into science degree programs are also accepted in the BA degree program.

Diploma in Business Technology courses may be applied to the BA degree program.

Transfer from a Science Degree to Bachelor of Arts Degree

Bachelor of Science courses will be accepted for credit in the BA degree program.

Transfer from a Technology Diploma to Bachelor of Arts Community Studies Degree

After earning any co-op diploma, students may take advantage of the unique nature of CBU by proceeding directly into the Bachelor of Arts Community Studies program. Co-op diploma graduates will receive a block of credits equal to COMS1100, COMS2101 and COMS3101; the four career-related courses; and two electives as specified in the CBU calendar. Transfer students will be required to successfully complete seven degree courses (42 credits) as follows:

- Four courses (24 credits) in Community Studies (COMS1100, COMS2101/3101, COMS2100 and COMS3100)
- Four courses (6 credits) in any degree discipline other than Community Studies

Students may also receive, on an individual basis, up to one full course of internal transfer credit (6 credits) if they have successfully completed a diploma course that has a degree course equivalency and wish to designate this discipline as their academic discipline within the BACS structure. Diploma students may also enrol concurrently in certain diploma and degree courses with the permission of the school dean.

INTERNAL TRANSFER CREDIT FOR SCHOOL OF SCIENCE AND TECHNOLOGY ENGINEERING

Transfer from a degree program	**to an Engineering Technology diploma program**
ENGI1165 Graphics	DRAF 111 Drafting I
ENGI1167 Statics	ENGI1163 Statics
ENGI2164 Thermodynamics	MECH2161 Thermodynamics
ENGI2166 Electric Circuits	ELEC1161 Fundamentals of Electricity I
ENGI2169 Strength of Materials	ENGI1164 Strength of Materials
ENGI2131 Fluid Mechanics	CIVI 112 Fluid Mechanics

Transfer from an Engineering Technology diploma program	**to a degree program**
ENGI1163 Statics	ENGI1167 Statics
MECH2161 Thermodynamics	ENGI2164 Thermodynamics
ELEC1161/1164 Fundamentals	ENGI2166 Electric Circuits
ENGI1164 St. of Materials	ENGI2169 St. of Materials
CIVI 112 Fluid Mechanics	ENGI2131 Fluid Mechanics
CIVI 233 Hydraulics	ENGI2131 Fluid Mechanics

Mathematics course transfers from a degree program	**to an Engineering Technology diploma program**
MATH1101 and 1203 Calculus	MATH1107/1208/2104 Math I, II, & III
MATH1105 Calculus	MATH1107/1208/2104 Math I, II, & III
MATH1105 and 1206 or MATH1101, 1203 and 1206 Calculus	MATH1107/1208/2104/2205 Math I, II, III, & IV
MATH1109	MATH 335 Statistics
MATH 183 Introduction to Fortran	COMP 1163 Computer Applications
MATH1116 Programming in C++	COMP 1163 Computer Applications
MATH1217 Introduction to Computer Applications	COMP 1163 Computer Applications

Transfer from an Engineering Technology diploma program	**to a degree program**
MATH1107/1208/2104 Math I, II & III	MATH1101 Calculus
MATH1107/1208/2104/2205 Math I, II, III, & IV	MATH1105 Calculus or 111 & 112
MATH 335 Math V	MATH1109 Statistics
*Credits for MATH1206 will be considered on an individual basis where the math sequence actually taken in the Engineering Technology diploma includes significant work in infinite sequences and series.	

Science course transfers from a degree program	**to an Engineering Technology diploma program**
CHEM 200 Physical Chemistry	CHEM 251/252 Physical Chemistry I & II
GEOL1101 Physical Geology	GEOL1103 Geology I
GEOL1201 Historical Geology	GEOL1203 Geology II
PHYS1102 Elements of Physics	PHYS 1101/1201 Physics I & II - Students will take some topics in both courses
PHYS1104 and 1204 General Physics	PHYS 111/112 Physics I & II

Transfer from an Engineering Technology diploma program	**to a degree program**
GEOL1103 Geology I	GEOL1101 Physical Geology
GEOL1203 Geology II	GEOL1201 Historical Geology

ACADEMIC REGULATIONS

THE LEARNING COMMUNITY

Cape Breton University is a learning community which calls on all members to contribute to the enlightenment and enrichment of others. CBU regards students, faculty, staff and administrators as partners, each with special roles and responsibilities in the promotion of learning.

Students are those partners in the learning community who are undertaking formal study, normally for credit. They are the people for whom CBU primarily exists to serve. Most university regulations or guidelines, including these guidelines, are directed primarily towards students who seek formal academic degrees, diplomas and other certifications. CBU is committed to working closely with its students to ensure that they are able to succeed in meeting the challenges of an excellent, innovative, post-secondary education program and to prepare them for life after CBU.

Student evaluation is an important component of the CBU experience and a range of procedures is employed in the evaluation process. These procedures vary from department to department and are tailored to meet the curriculum design and academic objectives of each program. These objectives include identifying a student's readiness to learn, providing feedback on a student's strengths and weaknesses, rewarding success, identifying and addressing reasons for failure and building a student's confidence.

The essence of CBU's mission is to serve the people of Cape Breton by providing the academic, professional and personal enrichment that is fundamental to the survival and growth of this community. CBU also realizes that its community is intimately connected to the region, the country and the world. CBU therefore encourages and welcomes applicants from other regions of Canada and from other countries. Students from outside Cape Breton add texture and depth to CBU; incoming students in turn benefit from a unique educational experience in a learning community that fosters enthusiasm, initiative and leadership.

In addition, CBU welcomes occasional participants in our activities and regards them also as valued members of the CBU community. These partners include adults or children who attend a workshop or a conference, audit a course or attend a play. They may come to the campus for an athletic event, a lecture, a reception, or an Art Gallery exhibition. Still others come to CBU to use the library, the Education Resource Centre, the Beaton Institute, or a host of other services and activities provided by the University.

STUDENT EVALUATION

EVALUATION PROCESS

Within the first week of each course, the instructor shall provide a written description of the evaluation procedure to be employed, including a description of all of the elements that contribute to the final grade in the course and the percentage proportion assigned to each.

SUCCESSFUL COMPLETION OF A COURSE

The passing grade in most courses is 50 per cent.

Equivalency Key: Numbers to letters. For the benefit of those receiving institutions that prefer letter grades, the following equivalencies key may be used:

90	-	100	=	A+
85	-	89	=	A
80	-	84	=	A-
70	-	79	=	B
60	-	69	=	C

50 - 59 = D
0 - 49 = F

AVERAGING
Averages are computed for all students in December and April and are calculated on the highest marks for up to 30 credit hours.

RANKING
Students carrying a normal course load in an award bearing program, will be ranked in that program at the end of the academic year. Courses that are audited are not included in this ranking.

THE DEAN'S LIST (Effective September 2011)

The Dean's List gives special recognition to students who achieve a minimum level of scholarly excellence.

To be eligible for the Dean's List, students must achieve an average of 80% or an average of 85% for Dean's List with Distinction, with the average calculated using all courses found on the transcript beginning May 1 and ending April 30. Students must have completed a minimum of 24 credits in the Fall/Winter term to be considered for inclusion on the Dean's List.

LEGENDS USED IN PLACE OF NUMERICAL GRADES
In certain cases, legends are used in place of numerical grades. Students should familiarize themselves with these legends, since some of them have a direct influence on average and rank.

AUD = AUDIT
Used to record an audit, where a student is eligible to attend regular classes but ineligible to participate in written assignments or examinations set for the course. No credit is attached to an audit.

PAS = PASS
Used to record credit for a course where no numerical grade is assigned. This legend is not considered in the calculation of averages.

FAI = FAILURE
Used to record a failure in a course where no numerical grade is assigned. This legend is not considered in the calculation of averages.

INC/GR = INCOMPLETE/GRADE
Used as a temporary grade that is granted to a student who has been unable to complete some part of the term work in a course. The number after the INC indicates the grade the student will receive if the course is not completed within the designated time. A final grade must be submitted within six weeks of the granting of the Incomplete/Grade.

NGR = NO GRADE REPORT
Used if no formal evaluation has been given in a course during a normal evaluation period.

F = FAILURE
Indicates a course drop without a formal withdrawal.

WF = COURSE WITHDRAWAL - FAILURE
Indicates a formal course withdrawal after the calendar deadline.

AEGROTAT STANDING
Aegrotat standing is the granting of credit for a course or courses based on the course work already completed, where no further assessment (for example, a deferred examination) is considered feasible because of illness or other extenuating circumstances. Aegrotat standing is not noted on the transcript or grade report, and is treated like any other grade. Students may only be granted aegrotat standing with the approval of the dean and the instructor.

ACADEMIC REGULATIONS

EXAMINATIONS

Examinations play a significant part in the evaluation process of many courses. Students should therefore be familiar with the following procedures associated with formal examinations. Any new material covered on the day of a scheduled, for-credit, test or exam, may not be included on that test or exam.

SCHEDULING OF EXAMINATIONS

Examinations are formally scheduled by the Student Service Centre in December and April. Examinations are also held at the conclusion of the spring and summer sessions.

No test or examination, with the exception of practical laboratory examinations, may be held in any course in either the five teaching days or the study period (defined as the period of time between the last day of classes and the beginning of the examination period) immediately preceding the December and April examination periods. This provision cannot be waived even by mutual consent of students and instructor.

Take home examinations cannot be due before the eighth day of the formal examination schedule.

GRADE REPORTS

Grade reports become available to students through the CBU web site following the December and April examination periods and after the spring/summer sessions. Students who have not paid all tuition fees or who have outstanding library fines will not have access to grades until their accounts are settled.

DEFERRED EXAMINATIONS

Students should notify their instructor(s) immediately if they must miss an examination due to a medical or other serious reason. Upon request, the dean of the school and the instructor may approve a deferred examination.

POSTPONEMENT OF EXAMINATIONS

If an examination cannot be held at the scheduled time because of inclement weather or other circumstances, other examinations will be written as scheduled and the postponed examinations will be rescheduled by the Student Service Centre on the first available day after the completion of the examination schedule.

EXTRAORDINARY CIRCUMSTANCES

If a student completes an examination and subsequently claims extenuating circumstances, such claims may be considered by the dean and the instructor on an individual basis. If a student is unable to write a scheduled examination for some serious reason, or if she/he becomes ill during an examination, the dean of the school must be contacted within five working days of the date on which the examination was to have been written. The dean and the instructor may decide whether a deferred examination will be scheduled or whether aegrotat standing will be granted.

COURSE CHALLENGE

CBU recognizes that some students may have achieved competence in certain subject areas. A challenge involves a special assessment administered by the relevant school at a time determined in consultation with the student. The following guidelines apply to course challenge:

- The student applies through the Student Service Centre and the assessment is administered through the relevant school.
- Course challenges are available to students registered in any program.
- The assessment must be completed within 30 days of the receipt of the application. Applications will be entertained only in the period from August to April.
- A specific course may be challenged only once.
- Students may not challenge a course for which they have already received a final grade.
- All course challenges will be recorded. The results of course challenges will be treated like any other course and will be included in the calculation of the student’s average.
- Payment of the appropriate fee is due at the time the application for challenge is filed. The fee for course challenges is 25% of the normal tuition fee.
- Students may challenge a maximum of 30 credit hours or the equivalent of five, 6-credit courses.
- Students may not challenge (human) language acquisition courses.

ACADEMIC REGULATIONS

SUPPLEMENTARY EXAMINATIONS

CBU, through the Student Service Centre, no longer schedules formal supplementary exams. Individual faculty and/or departments will determine if a supplementary exam is allowed in a course. If allowed, the policies and procedures with respect to the writing of supplementary exams will be determined by individual faculty and/or departments. For specific information on supplementary examinations, please refer to your course outline or the department chair.

REPEATING A COURSE

If a student repeats a course, the highest mark in the course will be used in the calculation of the final average as well as in the calculation of the average for all program requirements, prerequisites and for all other internal purposes where an average is calculated. The marks for previous attempts of the course will remain on the student's permanent record. The number of times a student may take a course is limited to three.

REASSESSMENT OF FINAL GRADES

Application for reassessment of a final grade should be made to the department chair in which the course was offered. The student must provide a letter to the chair stating specifically which assignments are being requested to be reassessed and the specifics of why the student believes the original grade was unfair; if the assignments have been returned to the student they must be included with the application for reassessment. The only grounds for application for reassessment are that the student believes that the grading criteria were inconsistently applied to that individual student, whether through error, carelessness or discrimination.

Applications for reassessment must be received within one month of the end of the term in which the disputed mark was assigned. Grades may be raised or lowered through the reassessment.

The department chair will first request the instructor who issued the mark to review the materials submitted along with the final examination. If the result of this preliminary review does not change the final grade, the student may request a formal reassessment. This request must be accompanied by a payment of $25, which will be refunded if the grade is raised.

The chair will then empanel two faculty members, one selected by the instructor and the other by the student requesting the reassessment; both members of the panel shall have expertise in the discipline of the assignments being reassessed. The panel will review the written work by the student in question; the panel will endeavour to utilize the same criteria originally used to grade the other students in the class, to the extent that it is possible to do so. If the two members cannot agree on a mark, the average of the two re-assessments will be assigned. The department chair will submit the decision of the panel to the Registrar to record the revised grade. The panel's decision may be appealed to Cape Breton University's Appeals Committee.

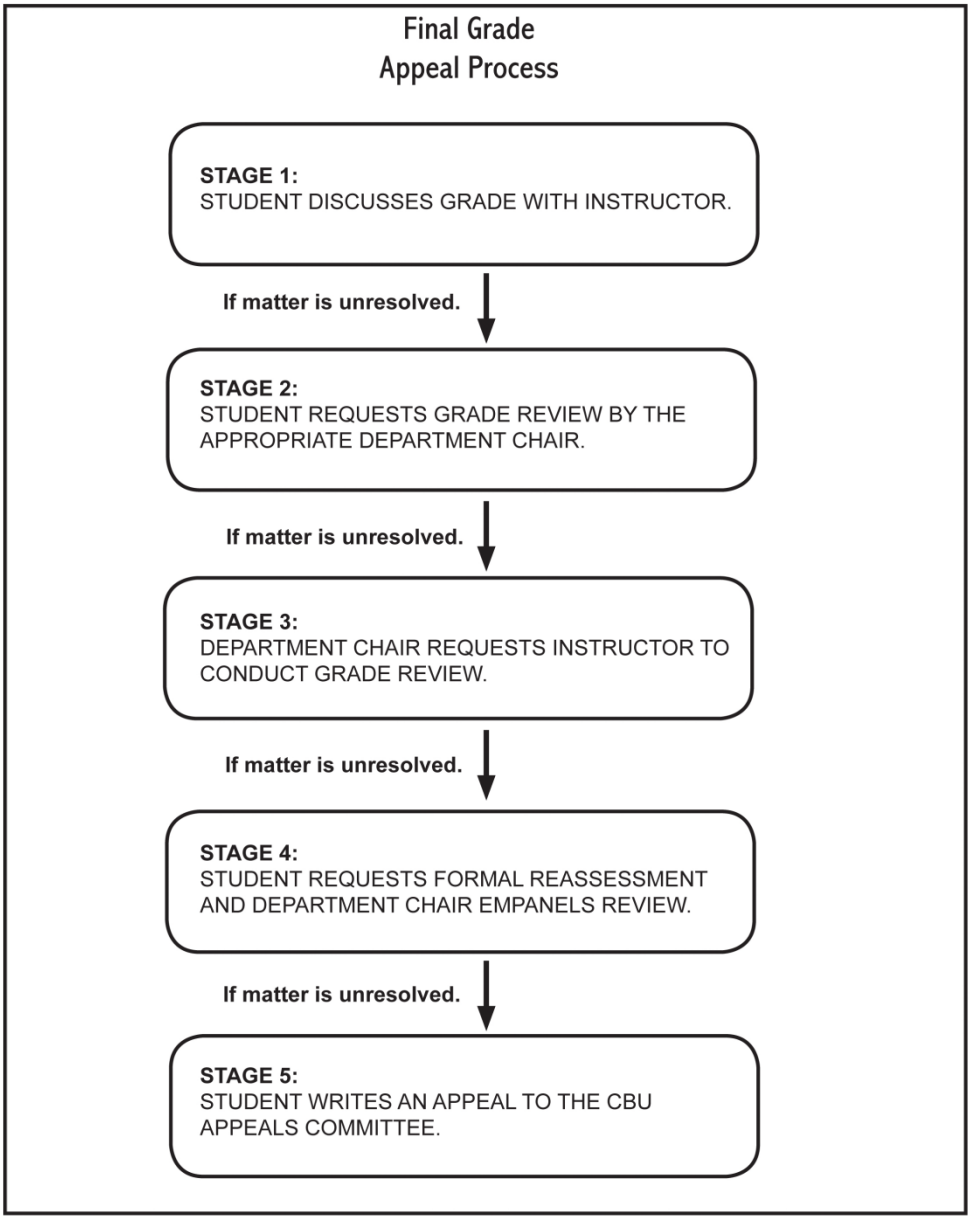
If the grade being reassessed is that of the chair, then the department vice-chair preferably, or the secretary of the department executive, shall carry out the duties as specified in this section.

ACADEMIC REGULATIONS

APPEALS OF ACADEMIC DECISIONS

Students who have grounds for believing themselves were unjustly treated within CBU are encouraged to seek all appropriate avenues, to redress or appeal, open to them. Cape Breton University's Appeals Committee, which is made up of one student, two faculty members, and one school dean is a final recourse for students who feel so aggrieved. Any student who has exhausted all other avenues as outlined in this document and who still feels that she/he has grounds for a reversal of a decision, may serve notice of appeal to this committee.

The Appeals Committee does not replace other adjudicative processes. Once all avenues have been fully explored, the following process will ensue:



Once all avenues have been fully explored:

1. A student submits a letter to the chair of the CBU Appeals Committee explaining in detail the nature of the appeal, providing all appropriate documentation and indicating clearly the relief sought.
2. In response, the committee may take any of the following steps: (a) indicate to the student that all avenues have not been exhausted and request that the matter be resolved before it reaches this final court; (b) request further

information from the student and/or others involved in the case; and (c) grant a hearing, at which time the student and others involved may be asked to appear before the committee.
3. The committee will gather evidence from all sides in the case, which may include both written and oral presentations from the parties involved.
4. The decision of the committee and reasons supporting it are communicated to the parties of the appeal.
5. The decision of the Appeals Committee is final.

All academic decisions affecting students may be appealed to the CBU Appeals Committee.

Academic Performance Review

Not all students are suited for the university learning experience and some may realize that another path of personal development is more appropriate. Sometimes the moment of study is inappropriate because of other pressures: financial, domestic, work-related and so on. Sometimes the student has chosen the wrong course of study. Whatever the reason, students may find that they are not attaining passing grades and are in academic difficulty.

All students who are registered in a minimum of three (3) courses (9 credits) for any one term will be reviewed with respect to academic performance.

Academic performance is reviewed at the end of April to determine academic progress and to assess student's academic standing.

Determination and Categories of Academic Standing

GOOD ACADEMIC STANDING

All students entering CBU are admitted in good academic standing. Students in good academic standing have met the minimum standard required for continued, unrestricted study at CBU. Students are advised that meeting this minimum standard may NOT be sufficient to satisfy the graduation requirements of their program of study. Graduation requirements vary by program. Please refer to the relevant description in the academic calendar to determine the graduation requirements that apply to your program of study.

EARLY ALERT

After December exams, students who have an average of less than 50% or two failing grades, may receive an early alert notation on their grade report. The notation will refer them to the policy regarding academic performance.

ACADEMIC ALERT

At the end of April, students previously in good academic standing will be placed on academic alert if they have an average of less than 50% but have passed more than 50% of courses in the period under review.

Students with academic alert standing can continue unrestricted study at the University but receive a letter warning them that they may be in academic jeopardy if their grades do not improve.

ACADEMIC WARNING

At the end of April, students previously in good academic standing will be placed on academic warning standing if they have an average of less than 50% and have failed more than 50% of courses in the period under review. These students are required to meet with the Performance Review Committee (of their program) to have their program of study approved prior to registration for the next academic year.

At the end of April, students previously on academic alert will be placed on academic warning standing if they have an average of less than 50% in the period under review. These students are required to meet with the Performance Review Committee (of their program) to have their program of study approved prior to registration for the next academic year.

ACADEMIC REGULATIONS

Students with academic warning standing will receive a letter advising them of this status and of the requirement to meet with the relevant Performance Review Committee.

ACADEMIC DISCONTINUANCE

At the end of April, students previously on academic warning will be placed on academic discontinuance for 12 months beginning May 1, if they have an average less than 50% in the period under review. They may register for only one 6-credit course at CBU during that period. They have the right to appeal their academic discontinuance to the dean of their program of study. The student's academic standing will return to good academic standing following the period of discontinuance.

ADDITIONAL REGULATIONS PERTAINING TO ACADEMIC STANDING

Students on academic warning will normally be restricted to registering in the equivalent of three or four full courses (18 – 24 credits) for the following year.

Students who achieve an overall average of 65% in the term following placement on academic alert or academic warning may, upon written request to the school dean, return to good academic standing for the second term with the approval of the school dean.

Students who achieve an overall average greater than 50% at the end of the 12 months following placement on academic alert or academic warning will return to good academic standing.

When a student is placed on academic discontinuance, this notation will appear on the student's transcript and remain for the period of the discontinuance. Once the period of discontinuance is over, the notation will be removed from the student's transcript but will remain on the student's internal academic record.

A Performance Review Committee will be established for each school under the authority of the school dean. The committee shall consist of the dean or associate dean (Chair), along with no fewer than three and no more than six members of the school. When reviewing a student, the chair will ensure that at least one member on the committee is from the program in which the student is enrolled. Any student required to appear before the committee is permitted to bring a representative of the Cape Breton University Students Union to the proceedings. The referral process is to be determined by each school.

Through the school dean, the Review Committee has the authority to:

- restrict course load
- specify courses including non-credit skills-related courses
- recommend program transfer

No appeal of the Review Committee's decision regarding the student's program of study will be permitted. Compliance with the committee's decision is to be regarded as a condition for the student registering at CBU.

TRANSCRIPTS

A transcript is a complete record of the student's academic performance and is maintained in the Student Service Centre. Students may request a copy or copies of their transcript at any time, bearing in mind the following:

- Official transcripts are issued directly to an institution or agency at the student's request;
- Transcripts issued directly to the student, are marked accordingly. They are not official transcripts;
- Partial transcripts are not issued and neither are any documents submitted directly to the Student Service Centre to support a student's application for admission or advanced standing;
- The fee for transcripts must be paid before the transcript is issued.

ETHICAL BEHAVIOUR IN ACADEMIC MATTERS

All members of the CBU community are called upon to demonstrate a respect for academic honesty. To this end, a number of processes and procedures are in place to govern the ethical behaviour of all members of CBU. For example, faculty, staff and administrators are governed by collective agreements and the appropriate collegial bodies. Since these academic regulations are primarily geared to guide students through their university career, the focus of this section is on academic dishonesty as it applies to the student body. However, this does not imply that students are less honest than other members of the CBU community. It simply acknowledges that whereas the rules and regulations governing the ethical behaviour among the non-student population are contained in other documents, it is necessary here to delineate the guidelines pertaining to student behaviour in academic matters.

Forms of Academic Dishonesty

PLAGIARISM

Plagiarism is the act of representing the intellectual work of others as one's own. Such misrepresentation is treated as a serious violation of academic standards and principles. When a student submits work for a course, it is assumed that the work is original, except where the student properly acknowledges the use of other sources. Of course, good scholarship often requires drawing on the work of others, but any borrowed material - including words, ideas, data, statistics, graphics and other intellectual matter, whether drawn from print, electronic, or other non-print sources - must be fully acknowledged according to the accepted practices of the relevant discipline.

The following policy applies equally to all forms of materials submitted in all courses. These materials include, but are not limited to, assignments, essays, compositions, theses, creative writing, reports, reviews, lab reports, projects, computer programs, experimental data, drawings, charts, plans, musical compositions and works of art. This policy applies without regard to the weight assigned to the item plagiarized within the course instructor's grading formula for the course.

Course instructors must report instances of plagiarism to the relevant dean who will then register the offence and any pertinent comments in the student's academic file. Access to this information will be restricted to persons occupying confidential positions in the CBU Deans' offices and the Office of the Registrar. On receiving a report of plagiarism, the dean will consult the student's academic file to ascertain the appropriate action to be taken. In all cases, a copy of the letter sent to the student will also be sent to the course instructor.

PROCEDURE

In any instance where an instructor of a course suspects plagiarism, he/she will, if reasonably possible, meet with the student. When the course instructor cannot reach the student, notifying the student of the required meeting with the course instructor will be the responsibility of the relevant dean. The meeting will include a discussion of the plagiarism policy and the student's particular case, so as to ascertain whether or not there are alternative explanations. If the instructor of the course concludes that the work or any part of it is plagiarized, the course instructor will inform the student and report the offence of plagiarism to the relevant dean. The relevant dean will then provide information to the course instructor regarding previous offences of plagiarism for this student. The penalty will be assessed accordingly (see below).

First offence: The student will be assessed a penalty by the instructor of the course with the maximum penalty being a zero on the assignment. The relevant dean will register the offence on the student's academic file. He or she will notify the student in writing that another violation of the plagiarism policy, in any course, will result in a course mark of zero and possible discontinuation from CBU.

Second offence: The relevant dean will review the details of the case and assign a zero in the course in which the plagiarism took place. The dean will also notify the student in writing that another violation of the plagiarism policy in any course will result in discontinuation from CBU. He or she may also recommend to the program dean that the student be discontinued if the case warrants (the rules for discontinuation are as outlined below). If the program dean agrees with the recommendation, the student will be discontinued. The program dean will inform the student in writing of the action taken, and the reasons for the action.

Third offence: The relevant dean will inform the program dean, who will officially inform the student in writing, that he/she will be discontinued as of the end of the current semester of registration. The course in which the plagiarism occurred will be assigned a mark of 0. The student will not be permitted to register in any CBU courses, for credit, for 12 months as of the date of discontinuance, nor will CBU accept transfer credits from other institutions if they have been earned during that period. The notation for the discontinuation will appear on the transcript for the duration of the discontinuation. The notation will remain on the student's internal academic file.

DISCONTINUATION PROVISION

If discontinuation occurs in the fall term, the student will be required to withdraw from any 6 credit courses he/she is enrolled in. He/she may be eligible for a refund for these courses, depending on the date of the reported infraction. However, there will be no refund for the course for which the plagiarized work was submitted. The student will be permitted to complete any three credit courses for that term, provided there has not been a report of plagiarism for those courses. If discontinuation occurs in the winter or spring/summer term, the student may complete any courses in which there has been no charge of plagiarism.

Should a student be readmitted after the discontinuation period, any further incident of plagiarism will result in a further one year discontinuation and the student will have to re-apply to the program if he/she wishes to return after that time period.

APPEALS PROVISION

Students have the right to appeal these decisions, at any stage, to the University Appeals Committee - a printable Appeals Process form may be found by visiting **www.cbu.ca** and clicking on **Current Students, Academic Study, Academic Regulations, Appeals Process.**

It is important that course instructors stress the institutional policy regarding plagiarism to their class and reference to the policy should be included in course outlines.

Note: Relevant dean refers to the dean to whom the instructor of the course reports. Program dean refers to the dean overseeing the student's program of studies.

CHEATING

Cheating is the use, possession, receipt, or transmission of unauthorized information pertinent to the subject of any supervised test or examination during such test or examination, or an attempt to commit the same. Impersonation of a candidate at a test or examination is another form of cheating and both parties are considered to have committed an offence.

Procedures: On discovering such conduct, the proctor of the examination or test will impound the papers of any student who appears to be a willing or knowing participant, as well as any other evidence of the infraction. The facts of the case will be reported to the faculty member(s) involved, as well as to the appropriate school dean.

Penalties: In the case of a first offence of this nature, where there is no evidence of premeditation or preparation, the instructor may require a substitute examination (or equivalent), or may assign a grade of zero for the test or examination at which the offence occurred. In the case of second offence, or one involving premeditation, the student will receive a grade of zero in the course and the appropriate dean may assess further penalties up to and including discontinuation from CBU.

OTHER FORMS OF ACADEMIC MISCONDUCT

More serious academic offences, such as producing plagiarized essays or assignments for compensation, theft, distribution or unauthorized retention of examination papers, offering improper inducements in exchange for favourable academic consideration, unauthorized access to or tampering with academic records and forging letters of permission or other academic documents, will be reported to the appropriate school dean. The procedures and penalties that apply to plagiarism and cheating will also apply to these other forms of academic misconduct.

NOTE: In all cases, the dean must also inform the student(s) involved of their rights to appeal to the CBU Appeals Committee.

ELECTRONIC DEVICE POLICY

The usage of electronic devices in class, laboratory, clinical area and seminar settings can lead to distractions of the instructors and students and is not allowed in the academic class, laboratory, clinical area and seminar environment, unless specified by the instructor. Electronic devices include, but are not limited to, cell phones, portable radio and music devices, electronic translators and laptop computers. Students using electronic devices in contradiction to the wishes of the instructor may be asked to turn off and/or to remove the device or may be asked to leave the class, laboratory, clinical area or seminar.

CLASS ATTENDANCE

As part of the CBU community, students play a key role within the institution. CBU strongly recommends that students attend class regularly. It is clear that those students who attend class on a regular basis will have a better chance of success in their studies. CBU also recognizes that students are ultimately responsible for their actions and consequently does not publish an institution-wide mandatory class attendance policy. Students cannot fail solely due to absence from class.

PROGRAMS

CBU offers a wide variety of programs leading to the awarding of degrees, diplomas and certificates. Moreover, some programs (e.g. Bachelor of Technology, Bachelor of Engineering Technology and the Bachelor of Arts Community Studies) offer a combination of a degree and a diploma. In some cases, a student may enroll in a dual degree program, such as the combined Bachelor of Arts Community Studies and the Bachelor of Business Administration degrees. A detailed description of all programs can be found in this calendar or online at **www.cbu.ca**.

OBTAINING A SECOND DEGREE FROM CBU

Requirements for Earning a Second Cape Breton University Undergraduate Degree

(Effective Date: This policy would be in effect for any student intending to graduate AT or AFTER the Spring 2014 Convocation.)

Preamble Establishing Terminology
For clarity the following terminology will be used throughout this policy.
Credential: This will be used throughout this policy to distinguish between programs, for example, BA, BSc, BBA, BACS, BEd, etc.
Degree: This word will be used to distinguish within a credential between the type of degree independent of any major, focus or option. Examples: 3 year general, 4 year major, double major, honours, etc.
Discipline: This word refers to the focus of the degree, whether this is a concentration, major, option, etc. Examples: English, Psychology, Physics, Accounting, Intermediate/Secondary Education, etc.
To illustrate: 4 year Bachelor of Arts Major in Psychology:
Credential: Bachelor of Arts
Degree: 4 year major
Discipline: Psychology

Requirements for Earning a Second Undergraduate Degree

1. **Second Different Credential:**

a) The regulations of the second credential program must be satisfied.
b) A candidate for a second credential must complete a minimum of 30 credits over and above the credits required for the first credential. More than 30 credits may be required to satisfy requirements of the second credential.
c) Normally, candidates for a second credential may not choose the same discipline as in the first undergraduate credential. However, candidates whose first credential was a three-year degree may complete a different four-year degree in the same discipline as the first credential. For example, students who graduate with a three- year BA in Psychology may go on to complete a four-year BSc in Psychology. In this case the new four-year degree will replace the three-year degree previously awarded. A notation will appear on the transcript indicating that the new degree replaces the one previously awarded.

2. **Second Degree within the Same Credential:**
a) Candidates who hold a three-year degree may upgrade to a four-year degree within the same credential and in the same discipline. In this case the new four-year degree will replace the three-year degree previously awarded. A notation will appear on the transcript indicating that the new degree replaces the one previously awarded.
b) Candidates who hold a four-year degree in a single discipline will be allowed to upgrade to a four-year double major degree with the following conditions:

i) They must satisfy all departmental regulations with respect to the second major.
ii) A notation will be added to the transcript indicating "Double major in _____ and _____ replaces previously awarded degree".

c) Candidates will be allowed to add a new discipline to a previously awarded four-year degree with the following conditions:

i) They must satisfy all departmental regulations for the single major or concentration in the discipline.
ii) A notation will be added to the transcript signifying "Major (Concentration) in _____".

Note: For the purposes of clarification, the distinction between items b) and c) above is as follows. Item b) refers to the case in which a student has a single discipline four-year major and has subsequently satisfied the requirements for a second major within a double major degree. Item c), on the other hand, refers to the case in which a student has a single or double discipline four-year degree and subsequently satisfies all of the requirements for a new single major four-year degree. It should be noted that the requirements for a second major within a double major degree are generally far less stringent than the requirements for the major within a single discipline four-year degree.
d) Candidates will be permitted to upgrade from a major to honours as long as departmental regulations are satisfied. The notation "Certificate of Honours Standing in _____" will be added to the transcript.

Conversion of a CBU Diploma to an Undergraduate degree in the Same Discipline:
1. Candidates who have been awarded a CBU Diploma may complete an undergraduate degree in the same discipline. They must complete a minimum of 30 credits over and above the credits required for the diploma. The awarding of the undergraduate degree will be noted on the transcript with a notation indicating it replaces the previously awarded diploma.
2. Candidates who simultaneously complete both the requirements for a diploma and those for a degree in the same discipline may only graduate with the degree. Application to graduate with the diploma will not be accepted.

COURSE SELECTION

Programs consist of combinations of courses. For example, in order to complete the requirements for a BBA degree, the student needs to pass 20 courses (120 credits). Most courses are offered between September and April. However, courses in Co-op Technology programs span eight, 4-month terms with three terms devoted to work placements. Courses in the degree programs are also offered during May to June (spring session) and July to August (summer session).

A course taught for three hours a week during the September - April period has a value of six credits and is called a full course. A course taught for three hours a week for one term (from September to December or January to April) has the value of three credits and is called a half course. Half and full courses are also offered in spring and summer.

A student's course choices depend on the requirements of his/her Diploma, Certificate, or Degree program. (These requirements are found in the program descriptions of the CBU academic calendar).

CHANGING A COURSE OR A COURSE SECTION

Some programs permit course changes. After the first two weeks of classes, students will need the instructor's approval to join the course. Changing a course may have financial ramifications. (See the Financial Section of this calendar or consult with the Vice-President Student Services, and Registrar. Moreover, if students stay in the same course but switch sections, they must still go through the process (either by signing a form at the Student Service Centre, or using the student log-in online at www.cbu.ca) similar to changing a course. For example if a student is in ENGL1600:10 (10 is the section number) which meets at 8:30 a.m. on Mondays, Wednesdays and Fridays, and wishes to move to ENGL1600:16 which meets on Thursday evenings, the student is still required to drop ENGL1600:10 and add ENGL1600:16.

All course changes, including section changes and drops, at any time, require submission of a Drop/Add Form to the Student Service Centre, or must be completed online at **www.cbu.ca**.

DROPPING A COURSE

Students may drop a course up until the mid-point of classes during the term that the course is offered without academic penalty. The deadlines for withdrawing from a course without academic penalty are listed in the Calendar of Events. Withdrawal from the first term of a pair of related courses (for example, ACCT1203/1204) does not automatically withdraw the student from the second term course. Both courses must be dropped.

Students are cautioned not to simply walk away from a course. Withdrawal must be made official (which means either signing a form in person at the Student Service Centre, or withdrawing online using the student log-in at **www.cbu.ca**). Students will otherwise end up receiving a zero on their grade transcripts and paying for the full course.

The length of time a student stays in a course before dropping will affect the tuition refund to be received. Please check the Class Withdrawals and Financial Refunds section found within the academic calendar.

Students are advised to consult the instructors of courses that they are considering dropping. Extra help may be all that is needed to successfully complete the course. Instructors will appreciate being informed of a decision to drop a course.

ALTERNATIVES TO THE USUAL COURSE LOAD

Five courses are considered as the normal load in degree programs; the normal load in diploma studies depends on the specific program. See the program descriptions in this calendar. Students wishing to take additional courses should consult with the dean of the school. There is usually an additional cost for extra courses. Students may wish to register for fewer than the usual number of courses, but should be aware that registering for fewer than three courses may affect eligibility for student loans.

OTHER ACADEMIC PATHS

Traditionally, students have entered university studies on a full-time basis as recent high school graduates. But this traditional student profile is changing and alternative ways of responding to students' needs are being introduced. Many students are older, have significant work experience, have work schedules which do not allow full-time study and, in a number of cases, have difficulty travelling to the CBU campus.

In response to changing needs, CBU provides alternate paths for students to reach their academic goals. All courses, regardless of mode of delivery, are subject to the standard procedures, criteria and checks and balances as outlined in the CBU Academic Regulations.

TAKING COURSES AT OTHER INSTITUTIONS

Students formally registered at CBU may take courses from another institution and have them transferred, with the prior permission of their school dean, into their CBU program. Normally, the total number of courses accepted shall not exceed 50% of the total number of courses required to complete the program. CBU has special agreements with some institutions which may allow students to utilize more courses than normal. Students should consult with their school dean for further information.

CORRESPONDENCE COURSES FROM OTHER INSTITUTIONS

Students formally registered at CBU may wish to take advantage of those courses offered through correspondence from other recognized institutions. The conditions for correspondence courses are the same as those listed above for taking courses at other institutions. CBU cannot give credit for a correspondence course if that same course is offered at CBU during the period the student wishes to enroll. However, a student may take a correspondence course if the same course at CBU is filled.

CBU DISTANCE EDUCATION COURSES

Courses offered by CBU in any format and at any site are considered to be regular university courses. This includes distance courses.

CBU COURSES TAKEN DURING SPRING/SUMMER SESSION

CBU courses taken during spring/summer session are considered to be regular university courses and no limitations or restrictions are placed on such courses, with one exception: because of the condensed format of the spring and summer sessions and, except where their program requires otherwise, students normally take only two courses concurrently. Those wishing to take more than two courses concurrently must have the permission of the dean.

CBU TUTORIAL COURSES

Tutorial courses are those courses listed in the CBU calendar which are not included in that session's timetable and are offered in special circumstances to very small groups of students. Tutorial courses are arranged between the student and an instructor and require the approval of the dean.

CBU COURSES FOR AUDIT

A student normally audits a course out of personal interest. Students who wish to audit courses may attend with the permission of the instructor, but normally would not participate in written assignments or examinations set for the course. Students may change from audit to credit up to the final date for registration and adding of courses. They may change from credit to audit, up to the final date for dropping courses without academic penalty. Students changing from audit to credit will be assessed course tuition and fees. Credit will not be awarded for audit courses. Audits cost substantially less than the fee for the same course taken for credit. Courses taken for audit may not be challenged. Please see Calendar of Events for the relevant dates.

DEGREE AND DIPLOMA CO-OP PROGRAMS: WORK TERMS

The following procedures adopted by CBU are also consistent with the criteria established by the Accreditation Council of the Canadian Association for Cooperative Education.

Work term evaluation consists of two components:

1. Performance as evaluated by the employer and by the appropriate advisor in the Student Service Centre. The evaluation is recorded on the student's transcript as either successful or unsuccessful.
2. A work report validated by the student's employer and graded by an appropriate member of the CBU faculty. A letter grade is recorded and indicates relative merit as follows:

A	-	85 - 100%	Excellent
B	-	70 - 84%	Very Good
C	-	60 - 69%	Good
D	-	50 - 59%	Acceptable
F	-	Less than 50%	Failure

Diploma Programs

Successful completion of the three co-op work terms is normally a prerequisite for graduation with the Co-op diploma. However, if CBU is unable to provide three program-related work experiences, the diploma may be awarded if the student has successfully completed two terms. Furthermore, in those extenuating circumstances where CBU is unable to provide two work terms, the dean may recommend that the diploma be awarded without the "co-op" notation.

Students are required to complete successfully both components of the work term in order to receive credit for the work term. If a student is unsuccessful in the work term, she/he will be required to withdraw from the program of study and will not be eligible for re-admission until after the lapse of two terms (eight months). The student will also be required to complete successfully a further work term before being admitted to another academic term. Students with relevant employment experience prior to registration in a co-op program may apply for credit for Work Term 1.

Prior approval of the advisors is required before leaving a work placement. Permission to leave a work period does not constitute any reduction in the requirements for a co-op program of study. If a work period is left without prior permission, or if a student is unable to honour an agreement to work with an employer, or if a student's conduct is such as to cause discharge from the job, the student will normally be awarded an unsuccessful grade for that work term.

If a student is unsuccessful in two work terms, she/he will be ineligible for re-admission to any co-op diploma program for a period of at least four academic terms. The student does have the right, however, to apply for non-co-op diploma programs.

Students can proceed to Work Term 1 with two course deficiencies in Academic Terms 1 and 2. Students are eligible to proceed to Work Term 2 or 3, if they have no more than one term course deficiency and the deficient course is not considered by the Evaluation Committee to be critical to the ensuing work term performance. Passing a supplementary exam will not qualify a student for the next work term.

Degree Programs

Students are required to complete successfully both components of the work term. Students who fail the work term will be required to withdraw from the BA and BBA Co-operative Education Internship programs.

Students are not permitted to drop a work period without prior approval of the advisors. Students who drop a work period without permission, or who fail to honour such an agreement to work with an employer, or who conduct themselves in such a manner as to cause their discharge from the job, will usually be awarded a failing rating for the work period.

Students who fail the internship will not be eligible to re-apply for a period of one year. Students seeking re-admission after this period of time has elapsed will have their applications considered by the Selection Committee.

GRADUATION

Students meeting their program requirements by April will graduate in May. Otherwise, they will need to complete the requirements by August 30 to graduate in the fall. Spring convocation normally occurs on the second Saturday of May at 2:00 p.m. Fall convocation normally occurs on the last Saturday of October at 2:00 p.m. Students must apply to graduate and should note the deadlines listed in the Calendar of Events.

CORRESPONDENCE FROM THE OFFICE OF THE REGISTRAR TO THE STUDENT

Upon registration at CBU, all official correspondence from the Office of the Registrar, with the exception of academic penalty letters, is sent to students via their CBU email accounts. Students are reminded to check their email regularly and to keep their inbox open for delivery.

ACCESS TO AND RELEASE OF STUDENT INFORMATION

The Registrar or delegate is the only CBU official authorized to release official information in the form of student transcripts, grade reports, or letters of standing, whether as individual or aggregate information.

Access to student records is therefore controlled by the Registrar and every caution is taken to ensure their security. Only school deans and department chairs are provided with remote access to student records. Faculty may review students' records within the Student Service Centre. Confidentiality of information is required.

Students have access to their records at any time as described under the section in these regulations called Transcripts or online through the student log-in at **www.cbu.ca**.

RELEASE OF INDIVIDUAL STUDENT INFORMATION TO THE PUBLIC

A student's parents, spouse, relatives, employers and members of other educational institutions or agencies are considered to be members of the public and the following information may be released in person, in writing, or over the telephone but only if the identity of the individual is confirmed: name, period of registration, program of studies, certificates, degrees, diplomas awarded, date(s) of convocation.

All other information is considered private and will only be released by the Registrar:

- if the student provides prior written consent;
- in accordance with the requirements of professional licensing or certification bodies;
- under the compulsion of law and then only if the Registrar agrees to release the record;
- in an emergency situation and then only if the Registrar agrees to release the information;
- if an organization sponsoring the student requests a statement of academic performance;
- if a person or agency seeks access to the record for research purposes and the following conditions are met:
- the intended use of the data is stated in the request and is judged by the Registrar to be an appropriate use of the data.
- any disruption to the operation of the Student Service Centre will be insignificant.
- confidentiality must be maintained.

NOTIFICATION OF DISCLOSURE OF PERSONAL INFORMATION TO STATISTICS CANADA

Statistics Canada is the national statistical agency. As such, Statistics Canada carries out hundreds of surveys each year on a wide range of matters, including education.

ACADEMIC REGULATIONS

It is essential to be able to follow students across time and institutions to understand, for example, the factors affecting enrolment demand at post-secondary institutions. The increased emphasis on accountability for public investment means that it is also important to understand outcomes. In order to conduct such studies, Statistics Canada asks all colleges and universities to provide data on students and graduates. Institutions collect and provide to Statistics Canada, student identification information (student's name, student ID number, Social Insurance Number), student contact information (address and telephone number), student demographic characteristics, enrolment information, previous education and labour force activity.

The federal Statistics Act provides the legal authority for Statistics Canada to obtain access to personal information held by educational institutions. The information may be used for statistical purposes only and the confidentiality provisions of the Statistics Act prevent the information from being released in any way that would identify a student.

Students who do not wish to have their information used can ask Statistics Canada to remove their identifying information from the national database. On request by a student, Statistics Canada will delete an individual's contact information (name, address, or other personal identifiers) from the ESIS database. To make such a request, please contact Statistics Canada:

Telephone
Monday to Friday, 8 a.m. – 4 p.m. EST/EDST
1-613-951-1666

Mail
Post-secondary Education Section
Centre for Education Statistics
Statistics Canada
17th Floor, R.H. Coats Building
Tunney's Pasture
Ottawa, ON K1A 0T6

E-mail
esis-siae_contact@statcan.ca
Further details on the use of the information collected by Statistics Canada can be obtained from the **Statistics Canada Web Site.**

DIRECTORIES

Cape Breton University will prepare lists of students, giving ID, name, address and telephone number for use by its administrative officials, including Students' Union personnel. These lists include information on all currently registered students and are considered to be confidential.

Directories are not permitted to be published.

CAPE BRETON UNIVERSITY
STUDENT FEES AND FINANCIAL INFORMATION

At the time of this calendar's publication, fees for future years had not yet been determined. Fees are subject to change without notice. Readers are encouraged to refer to **www.cbu.ca** and click on **Future Students or Current Students** and then choose **Tuition and Fees** for the most up-to-date fee structure and policies.

RESPONSIBILITY

It is the responsibility of each student to be familiar with CBU's regulations pertaining to financial matters. CBU does not accept responsibility for any loss, damage, or interruption of classes, accommodation, or meals suffered by any student as a result of circumstances beyond the reasonable control of the University. These circumstances include the suspension or termination of services by any group of university employees.

COMPLETED REGISTRATION

Registration is not completed until fees are paid or until arrangements are made for the payment of fees in accordance with CBU policy. Acceptable arrangements include the assignment of required amounts from a student loan.

ACADEMIC FEES

Academic fees include tuition and other mandatory fees that affect domestic and international students. International students are encouraged to review regulations at **www.cbu.ca** for a full listing of fees, regulations and policies.

CLASS WITHDRAWAL AND FINANCIAL REFUNDS

A student who wishes to withdraw from one or more courses must do so officially, online using the student account on the CBU website, or in writing. A student's tuition and fee refund entitlement is dependent upon the date of official class withdrawal. Please note that ceasing to attend lectures or notifying the instructor does not constitute official withdrawal and refunds will not be issued in these circumstances.

Tuition, Students' Union fees, lab fees and differential fees will be refunded in accordance with the following schedule:

Academic Year 2011 – 2012			**Academic Year 2012 – 2013**		
WITHDRAWAL	1st TERM FEES	2nd TERM FEES	WITHDRAWAL	1st TERM FEES	2nd TERM FEES
Sept. 12 – Sept. 23	100%	100%	Sept. 10 – Sept. 21	100%	100%
Sept. 24 – Sept 30	75%	100%	Sept. 22 – Sept. 28	75%	100%
Oct. 1 – Oct. 28	50%	100%	Sept. 29 – Nov.2	50%	100%
Oct. 29 – Dec. 31	-	100%	Nov.3 – Dec. 31	-	100%
Jan. 4 – Jan. 17	-	100%	Jan. 7 – Jan. 18	-	100%
Jan. 18 – Feb. 3	-	75%	Jan. 19 – Feb. 1	-	75%
Feb. 4 – March 2	-	50%	Feb. 2 – March 1	-	50%
March 3 – April 30	-	-	March 2 – April 30	-	-

For more information, call the Student Service Centre at (902)563-1330; or visit **www.cbu.ca - Current Students, Tuition and Fees**.

FINANCIAL INFORMATION

PAYMENT POLICIES – TUITION AND OTHER ACADEMIC FEES The following regulations apply to the payment of tuition fees for domestic and international students:

Domestic Students: First term marks will only be issued to students who have paid all first term tuition and fees (including outstanding Library fines) in full.

Interest will be calculated on outstanding balances at a rate of 1% the first day of each month. Students registering for only one 3-credit course will be required to pay all tuition and applicable fees at the time of registration.

Students registering for multiple courses for the first academic term (September to December) or both academic terms (September to April) will be required to pay an initial deposit at the time of registration. For students registering in the first term only, the remaining balance of all fees is to be paid no later than September 30.

For students registering for both academic terms (September to April), a total of 60% of the remaining balance of all fees must be paid no later than September 30. (The remaining 40% is to be paid no later than January 15).

Students with approved student loans will be required to pay all the tuition and fees due by September 30 (as stated above) at the time of registration. Students are encouraged to apply for Student Loans on a timely basis.

Note: The minimum payments stated above are required by ALL students (including students who have not received their student loans at the time of registration). Students who have an outstanding balance from the prior term(s) will not be permitted to register unless such balance is paid in full and the payment policies (as stated above) are adhered to. Students in residence must pay the required residence confirmation and down-payment fees in addition to the above tuition fees – NO EXCEPTIONS.

International Students: International students registering for courses for the first academic term (September to December) are required to pay all tuition and applicable fees at the time of registration. Students claiming Canadian landed immigrant status will be charged differential fees unless documented verification has been provided to the Finance Office at CBU.

International students registering for both academic terms (September to April) are required to pay 60% of all tuition and applicable fees at the time of registration.

Note: International students in residence are required to pay all fees (residence accommodations and meal plans) at the beginning of each semester in addition to the above tuition fees – NO EXCEPTIONS.

Other Academic Fees: Application fees for general admission, prior learning assessment and transfer credit are not refundable. Other fees include graduation fee, NSF or other returned cheques handling charge, prior learning assessment fee (not refundable), replacement parchment fee, supplementary examinations (fees vary for on or off campus) and transcript fee.

Audit fees: The charge for auditing a course is one-half of the tuition. Audit fees are not refundable.

Tuition waiver: Students age 65 or pre-retired at 60 (does not apply to distance education courses, tutorials or graduate courses).

HEALTH PLAN - DOMESTIC STUDENTS

By referendum, all full-time students (except international students) are automatically enrolled in the Student Health Plan administered by the CBU Students' Union. The fee for the plan is payable at the time of registration.

The Student Health Plan provides students with a comprehensive set of extended health insurance benefits (for prescription drugs, supplementary health care benefits, vision care, etc). The coverage runs from September 1 to August 31. Family rates are also available and part-time students may opt into the plan.

If proof of comparable alternative coverage (through parents, spouse, or employer) is presented to the Students' Union, a student may opt out and the fee will be removed from their account. The deadline to complete this process is the last Friday in September. The opt-out procedure is an annual one and therefore must be done each year (This fee is not refundable after the last Friday in September).

For more information about the plan and its benefits, contact the Students' Union.

HEALTH PLAN - INTERNATIONAL STUDENTS

All international students must, as a requirement of registration, enroll in the University International Health Plan. The fee is refundable in accordance with the terms set forth by the insurance carrier.

RESIDENCE ACCOMMODATIONS

CBU offers a variety of residence accommodations with varying costs and meal plan obligations. For residence fees and residence withdrawal policy, go to **www.cbu.ca** and click on **Future Students or Current Students** and then choose **Tuition and Fees.**

MEAL PLANS

All residence students, other than those in apartment style residences, must purchase the minimum level meal plan.

All meal plans are not transferable and students cannot carry a balance to the second term if they have not used the total value of their first-term plan. Should the need arise, supplementary meal plans can be purchased through Chartwells without an additional administrative cost, with a minimum purchase.

For further details on meal plan selection, fees, refund provisions and fee payment dates, go to **www.cbu.ca** and click on **Future Students or Current Students** and then choose **Tuition and Fees.**

SCHOOL OF ARTS AND SOCIAL SCIENCES

ROD NICHOLLS, PHD - DEAN

The School of Arts and Social Sciences is the administrative home of the Bachelor of Arts degree and the Bachelor of Arts Community Studies degree. The degrees may be completed through either full-time or part-time study. Departments in the school also service the Bachelor of Science and Bachelor of Business Administration degree programs.

Bachelor of Arts

There are three Bachelor of Arts degrees: the three year (general), the four year (major), and the honours degree. These degrees provide a well rounded education through the combination of a core program, with the following possibilities of specialization:

General Program – 3-Year Degree

Anthropology, Anthropology-Sociology (jointly), Celtic Culture, Communication, English, Ethnomusicology, Folklore, French, History, Mathematics, Mi'kmaq Studies, Philosophy, Political Science, Psychology, Religious Studies and Sociology.

Major Program – Major/Minor 4-Year Degree

Major in Anthropology, Anthropology-Sociology (jointly), Communication, Dramatic Literature, English, Folklore, History, Mathematics, Mi'kmaq Studies, Philosophy, Political Science, Psychology and Sociology.

Major Program - Double Major/Area Major 4-Year Degree

Students considering these options should consult a department chair.

Honours Program

CBU offers honours programs in the following areas: Anthropology, Communication, English, History, Political Science, Psychology and Sociology

BACHELOR OF ARTS COMMUNITY STUDIES

The School of Arts and Social Sciences offers the Bachelor of Arts Community Studies (BACS) program, a process-oriented, experiential degree program that prepares students for the job market. The core Community Studies courses are delivered in a small group format and focus on problem-solving, critical thinking, community based research and intervention, self-directed learning, reflective learning and work placements. There are transfer credit arrangements with community colleges in Newfoundland, New Brunswick and Nova Scotia as well as the Atlantic Police Academy in PEI. Moreover, it offers prior learning assessment for those students who enroll with appropriate life, volunteer and work experience. This degree program can be completed on campus or online. There are three and four year BACS degrees available.

3-Year Degrees:

General Program – 3 Year Degree

In addition to the core Community Studies courses (24 credits), students choose courses from a variety of disciplines offered at CBU depending upon their career interests. The complete range of courses is provided in the course description section of the academic calendar.

Sports Management Option – 3 Year Degree

Students are required to take the core Community Studies courses, Sports and Human Kinetics courses, an academic concentration in a discipline of their choice and electives.

4-Year Degrees:

Major Program – Major/Minor 4-Year Degree
Major in Anthropology, Anthropology – Sociology (jointly), Business, Communication, English, Folklore, History, Mi'kmaq Studies, Philosophy, Political Science, Psychology, and Sociology.

Major Program – Double Major/Area Major 4-Year Degree
Students considering these options should consult the Community Studies Department Chair or the school Dean.

Sports Management Option – Area Major 4-Year Degree
The core Community Studies courses, an area major in Sports and Human Kinetics, plus two additional area majors and electives comprise this 4-year degree program.

Honours Program
Honours programs are offered in the following areas: Anthropology, Communication, English, History, Political Science, Psychology, and Sociology.

Bachelor of Arts Community Studies/Bachelor of Business Administration – 4-year degree
With the Shannon School of Business, the School of Arts and Social Sciences offers a joint Bachelor of Arts Community Studies/Bachelor of Business Administration (BACS/BBA) degree program.

Diploma and Certificate Programs
The school offers a Diploma in Public Administration and Management, and Certificates in Theatre Arts, Ethnomusicology, Heritage Studies, Public Administration, and Social Research.

DEPARTMENTS

Anthropology and Sociology

Chair, Janice Drodge

The Department of Anthropology and Sociology provides a full range of courses in Cultural Anthropology and Sociology. It offers three-year specializations and four-year majors in Anthropology, Sociology or the joint Anthropology/Sociology option, as well as an Honours degree in Anthropology or Sociology. The Department also offers a Certificate in Social Research.

Communication

Chair, Dawn White

The Department of Communication offers courses in communication theory and practice, rhetoric, and media studies. Its emphasis on interpersonal and oral communication is rare in Canadian universities. Students may complete a specialization, a major, a double major, an area major or an honours program in Communication.

Community Studies

Chair, Jane Connell

The Department of Community Studies provides the core Community Studies (COMS) courses and Sports and Human Kinetics courses for the Bachelor of Arts Community Studies (BACS) degree. The COMS courses are process-education courses delivered in a small group format and emphasize problem-solving skills, critical analysis and community-based research and intervention.

Heritage and Culture

Chair, Heather Sparling

The Department of Heritage and Culture is dedicated to the study of regional heritages. It encompasses, Celtic Culture, Ethnomusicology, Folklore and Heritage Studies.

History and Fine Arts

Chair, Graham Reynolds

The Department of History and Fine Arts offers a three-year specialization, four-year majors and an honours degree in History as well as elective courses in drawing, painting, history of art, history of music and cinema. The History program provides options in both European and North American history. A special resource for the study of Atlantic and Cape Breton history is the world-class collection of documents available on the CBU campus in the Beaton Institute.

Languages and Letters

Chair, Mary Keating

The Department of Languages and Letters offers a three-year specialization, four-year major and an honours degree in English; it offers an area major and minor in French. English, French and Spanish courses can also be used as electives (please see Celtic Studies for courses Gaelic and Mi'kmaq Studies for courses in Mi'kmaq). The English program provides a full selection of options in British, Canadian, American, and world literature as well as courses in writing. The Department also provides courses for the Drama minor and the undergraduate Certificate in Theatre Arts.

Mathematics

Chair, Edmund Rudiak

Mathematics falls within the Department of Mathematics, Physics and Geology in the School of Science and Technology. However, a concentration in Mathematics is available in the three-year Bachelor of Arts. Majors in Mathematics are available to students in the four-year Bachelor of Arts and Bachelor of Arts Community Studies degrees. Students should consult the Dean of Science or the chair for more information.

Indigenous Studies

Chair, Rod Beresford

The Department of Indigenous Studies of Unama'ki College brings together full and part-time faculty members involved in the teaching and development of university courses within the disciplines of Mi'kmaq Studies and MSɬT /Integrative Science.

Mi'kmaq Studies as a discipline, examines aspects of Mi'kmaw culture including language, governance, spirituality and comtemporary social issues. The department offers twenty two (22) courses within the discipline of Mi'kmaq Studies and the courses are organized into two main streams: 'language and culture' and 'governance and history'. The courses are open to all students enrolled at Cape Breton University. Students may obtain a BA / BACS Major or Minor in Mi'kmaq Studies or may simply wish to take a few courses as Electives within the BA, BACS or BBA Degrees. Mi'kmaq Studies courses are often of interest to students who plan to pursue careers in law, medicine, social work, teaching or anthropology.

Philosophy and Religious Studies

Chair, Scott Stewart

The Department of Philosophy and Religious Studies provides a three-year specialization and four-year majors in Philosophy as well as a three-year specialization and a minor in Religious Studies.

A revision of the department's offerings allows students to choose a three-year specialization and electives selected from a new set of courses focusing on the examination of values - religious, scientific, social, political, moral and aesthetic. A traditional, historically-based four-year major in Philosophy is also available.

Political Science

Chair, Terry Gibbs

The Department of Political Science offers a variety of courses in the fields of Canadian Politics and Government, Law and Justice Policy, Public Administration and Public Policy, Local and Regional Politics, Government-Business Relations, International Relations, Strategic Studies and Political Theory.

Psychology

Chair, Katherine Covell

The Department of Psychology falls under the School of Science and Technology. However, majors are available to students in the Bachelor of Arts and Bachelor of Arts Community Studies degrees. Students should consult the Dean of Science and Technology or the Chair for more information.

ACADEMIC PROGRAM REGULATIONS

Bachelor of Arts

Admission Requirements

Required: Five Grade 12 advanced or academic courses including English, with an overall average of at least 60%.

Students may substitute one Grade 12 open course for one advanced or academic course, except where a particular course is specified.

Program Options

Students entering the BA program may enter the three-year option or one of the four-year major options (major/minor, double major, or area major). Those who begin in the three-year program may change to a four-year program at a later date if they meet program requirements for average and grades. Students who begin in a four-year program must attain the required average and grades to remain in the program. Students who wish to complete an honours program may apply for admission after successfully completing two full years of study with the required average and grades. Students in all BA programs must have a minimum of 50% of credits beyond the 100 level. Students in any BA option may choose to participate in the BA Co-operative Education Internship program. Students transferring into the BA from another CBU program or from another post-secondary institution should consult the dean(s) to determine credit equivalencies.

THREE-YEAR GENERAL PROGRAM

The three-year program requires successful completion of 15 courses (90 credits) of which 7.5 (45 credits) must be beyond the 1000 level:

- 5 courses (30 credits) from the core curriculum
- 5 courses (30 credits) in a disciplinary area of concentration
- 5 courses (30 credits) electives.

FOUR-YEAR MAJOR PROGRAM

The four-year major program requires the successful completion of 20 courses (120 credits) of which 10 (60 credits) must be beyond the 100 level:

- 6 courses (36 credits) from the core curriculum
- One of three possible combinations of 14 courses (84 credits). (Details given below.)

HONOURS PROGRAM

Students may apply for admission after successfully completing two full years of study (60 credits). In order to be accepted they must:

- have achieved an average of at least 65% in each of the first two years of study
- have achieved a grade of at least 70% in each course in the major subject.

BA CO-OPERATIVE EDUCATION INTERNSHIP PROGRAM

This program provides students with an opportunity to gain career-related, paid work experience during their degree program. The combination of theory and practice helps prepare students to make informed career choices and to acquire job skills through internships which may be from eight to 16 months long. To be eligible for the program students must:

- have a grade average of 70% or higher
- have completed two years of study (60 credits).

Applications can be made through the advisors located in the Learning Commons and Student Life Centre.

Three-Year Program

The three-year BA requires completion of 15 courses (90 credits). Five courses (30 credits) comprise the core curriculum, five courses (30 credits) are taken in the discipline of concentration and five elective courses (30 credits) complete the program. A student may count any single core course as part of a concentration, major or minor configuration (except for ENGL1101, ENGL1103 or ENGL1105, which cannot be counted in an English major or concentration). The student must offset the resulting credit deficit with equivalent credits from any discipline. No course can satisfy the requirements for more than one core group.

Bachelor of Arts Core Curriculum		
Group	**Credit Value**	**Subject Area**
1	6	Any six credits in English with the exception of ENGL2624/DRAM2621,ENGL2625/DRAM2623,ENGL3621 and ENGL3623
2	6	Credits from among Humanities, Philosophy, History or Religious Studies courses
3	6	Credits from among Anthro/Soc, Political Science, Economics or Mi'kmaq Studies courses
4	6	Credits from among Art, Ethnomusicology, Folklore, Communication, Drama, ENGL1601 (Cinema) or MIKM1167 (Indigenous Art of North America.
5	6	Credits from among NASC1120, AN/S2200, PHIL2222, AN/S2212, POLS2162, PSYC2101/3101, MATH, Accounting or Science (including MSIT) courses

CONCENTRATION

The three-year program requires completion of five courses (30 credits) in one discipline for the concentration. These are listed below under departmental regulations. Students may choose from Anthropology, joint Anthropology/Sociology, Celtic Culture, Communication, English, Ethnomusicology, Folklore, French, History, Mathematics, Mi'kmaq Studies, Philosophy, Political Science, Psychology, Religious Studies and Sociology. Some departments have regulations governing the choice of courses for the concentration. Students are urged to seek advice about course choice for the concentration from the appropriate department chair.

ELECTIVES

Students must complete five courses (30 credits) as free electives (any university credit courses).

The Four-Year Major Program

All options in the major program require completion of the core curriculum as given above. In addition, students must complete a 4000-level Directed Studies class (6 credits) or six credits at the 4000-level in the major subject. In any 4-year BA degree (full-time studies), five of the six core courses are usually completed within the first two years. The sixth core course is taken in the final year of a program. A student may count any single core course (with the exception of ENGL1101, ENGL1103 or ENGL1105) as part of a concentration, major or minor. But the student must offset this credit deficit with equivalent credits (for any discipline).

MAJOR PROGRAM REGULATIONS

Students may enter the major program when they begin the BA program or they may begin in the three-year program and apply to enter the major program at a later date. Students may major in Anthropology, Anthropology/Sociology, Communication, English, Folklore, History, Mi'kmaq Studies, Philosophy, Political Science, Psychology or Sociology. The following regulations apply to students seeking admission to the major program and to students enrolled in the program:

- A student in good academic standing who has achieved an average of at least 60% is eligible for admission to the major program. Students who opt for the four-year degree from the beginning of their program must attain a 60% average to remain in the program.
- An average of 65% in years three and four will be required to earn a major degree.
- A minimum average of 65% will be required over the courses offered towards the major subject(s).
- Disciplines offering a major require specific courses. Please refer to the departmental regulations found in the following pages. Students are urged to consult a department chair about course choice for the major(s).

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There are three options in the major program:

1. **Major/Minor** - the core (30 credits), 7 courses (42 credits) in the Major discipline, 3 courses (18 credits) in the minor discipline, and 5 electives (30 credits). Subjects available for the major in the major/minor program are: Anthropology, joint Anthropology/Sociology, Communication, English, Folklore, History, Mi'kmaq Studies, Philosophy, Political Science, Psychology, Sociology.
2. **Double Major** - the core (30 credits), 6 courses (36 credits) in the first major, 4 courses (24 credits) in the second Major, and 4 electives (30 credits). Normally the second major is related to the first.
3. **Area Major** - the core (30 credits), 4 courses (24 credits) in the first major, 4 courses (24 credits) in the second major, 3 courses (18 credits) in the third major, and 4 electives (24 credits). The majors are generally chosen from three closely related disciplines. Subjects not available for the major in the major/minor program (for example, French, Ethnomusicology or Religious Studies), may be used in the Area major.

Students considering the double major or area major options should consult a Department Chair about subjects and courses.

Honours Program

Honours are offered in Anthropology, Communication, English, History, Political Science, Psychology and Sociology. Students normally apply for admission to the program after successfully completing the first two years of study. In order to be accepted students must:

- Have achieved an average of at least 65% in each of the first two years and
- Have achieved a grade of at least 70% in each course in the major subject.

Further regulations are given in the departmental regulations sections below.

Program worksheets for the BA options are available from the secretaries to the academic schools, who are located in B-212.

Students transferring into the BA from another CBU program or from another post-secondary institution should consult the dean(s) to determine credit equivalencies.

Bachelor of Arts Community Studies

Admission Requirements

Required: Five Grade 12 advanced or academic courses including English, with an overall average of at least 60%.

Students may substitute one Grade 12 open course for one advanced or academic course except where a particular course is specified.

Students in the BACS program may take either a three-year or a four-year program. In the three-year program students may complete the general BACS degree (15 courses, 90 credits) or one of the Sports Management options (15 courses, 90 credits). The four-year program (20 courses, 120 credits) offers three options: the major/minor, the double major, and the area major. BACS students can also complete honours programs.

Those entering the BACS program may enter either the three-year or the four-year program. Those who begin in the three-year program may change to a four-year program at a later date if they meet program requirements for average and grades. Students who begin in a four-year program must maintain the required average and grades to remain in the program.

Three-Year General Program

The three-year BACS requires completion of 15 courses (90 credits). Three 6-credit and two, 3-credit Community Studies courses (24 credits) comprise the core curriculum, four courses (24 credits) are taken in the academic field, four courses (24 credits) are taken in career related field, and three courses (18 credits) of electives complete the program.

THE CORE COURSES

All BACS students are required to complete the Community Studies (COMS) core courses. COMS courses are interdisciplinary seminars in the retrieval, analysis and application of information. In the first year, the emphasis is on finding existing sources of information and using such information to produce analyses and make decisions. In the second year, the focus shifts to primary research. Students identify a specific community problem, examine and interpret existing information on the chosen topic and then carry out primary research. In the third year, the emphasis is placed on community intervention. Once an issue has been identified and examined, students seek to intervene, in some practical and positive way, in the life of the community. Throughout the sequence of COMS courses five themes are stressed: self-directed learning, reflective learning, problem solving, critical thinking and group dynamics.

COMMUNITY STUDIES COURSES (24 CREDITS)

- COMS1100 - Analysis & Decision Making (6 credits)
- COMS2100 - Applied Research (6 credits)
- COMS2101 - Community Volunteer Work I (3 credits)
- COMS3100 - Community Intervention (6 credits)
- COMS3101 - Community Volunteer Work II (3 credits)

Detailed descriptions of Community Studies courses are contained in the alphabetical listing of course descriptions in this calendar.

ACADEMIC FIELD (24 CREDITS)

Students must complete four courses (24 credits) that are chosen from any one academic discipline offered at CBU. At least six credits must be at the 3000 level or above.

CAREER RELATED COURSES (24 CREDITS)

Four career related courses (24 credits) are chosen from two or three subject areas other than the subject chosen for the academic field. The subjects may be from either degree or diploma course selections.

ELECTIVES (18 CREDITS)

Students must complete three elective courses (18 credits). These may be chosen from any subject area.

Three-Year Program - Sports Management

Students who aim at a career in recreation or sport management select academic and elective courses which fit their particular interests and career goals, along with the core Community Studies courses (24 credits). Their academic courses may be taken from any of the University degree disciplines including Business Administration. Sports Management students are required to enroll in four, career related Sports and Human Kinetics courses (24 credits). Students can choose from one of three streams: sports management, teaching and wellness management, in consultation with an academic advisor.

Detailed descriptions of BACS Sports and Human Kinetics courses are contained in the alphabetical listing of course descriptions in this calendar.

COMMUNITY STUDIES COURSES (24 credits)

(see Three-Year General Program)

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ACADEMIC FIELD (24 credits)
(see Three-Year General Program)

CAREER RELATED COURSES (24 credits)
Sports and Human Kinetics (SPHK) courses

ELECTIVES (18 credits)
(see Three-year General Program)

Four-Year Major Program

The four year major program in the Bachelor of Arts Community Studies expands the options for those students who plan to continue their studies at graduate or professional schools or who wish to achieve a depth of study in one or more disciplines not provided for in the structure of the three-year general program.

All options in the major program require completion of the core Community Studies courses (30 credits). COMS1100, COMS2100, COMS2101, COMS3100, COMS3101, COMS4100.

- A student in good academic standing who has achieved an average of at least 60% is eligible for admission to the major program. Students who opt for the four-year degree from the beginning of their program must attain a 60% average to remain in the program.
- An average of 65% in years three and four will be required to earn the major degree.
- A minimum average of 65% will be required over the courses offered towards the major subject(s).
- Disciplines offering a major require specific courses. Please refer to the departmental regulations in the BA section of this calendar for details. Students are urged to consult a department chair about course choice for the major(s).

There are three options in the Major program:

1. Major/Minor requires: the core COMS courses (30 credits), 48 credits in the major discipline, 18 credits in the minor discipline, and 24 credit electives. Subjects available for the major in the major/minor program are: Anthropology, joint Anthropology/Sociology, Communication, English, Folklore, History, Mathematics, Mi'kmaq Studies, Philosophy, Political Science, Psychology and Sociology. See the departmental regulations section of this calendar for more information.
2. Double major requires the core COMS courses (30 credits) ,(42 credits) in the first major, (or 30 credits) in the second major, and (24 credits) of electives.
3. Area major requires the core COMS courses (30 credits), (24 credits) in the first major, 24 credits in the second major, 18 credits in the third major, and 24 credits of electives. The majors are generally chosen from three closely related disciplines. Subjects not available for the major in the major/minor program (for example, French, Ethnomusicology, or Religious Studies), may be used in the Area major.

Students considering the major/minor, double major or area major options or the Honours Program must consult the chair of Community Studies as well as the chairs of the major and minor subjects.

Honours Program

BACS students can complete honours in the following areas: Anthropology, Communication, English, History, Political Science, Psychology and Sociology. Students may apply for admission to the program after successfully completing two full years of study (60 credits). In order to be accepted, students must have achieved an average of at least 65% in each of the first two years, and have achieved a grade of at least 70% in each course in the major subject. Further regulations are provided in the departmental regulations section of the calendar.

Bachelor of Arts Community Studies/Bachelor of Business Administration

CBU offers students an opportunity to obtain both their BACS and BBA degrees in four years. At the end of three successful years, students will receive a Bachelor of Arts Community Studies degree with a career concentration in Business. After the fourth successful year, the student will receive the Bachelor of Business Administration degree.

Special Transfer and Entry Opportunities

The School of Arts and Social Sciences currently offers special opportunities for students who wish to enter the Bachelor of Arts Community Studies program after successfully completing the following programs:

COLLEGE OF THE NORTH ATLANTIC (CONA)

Students who have graduated from CONA, Newfoundland and have met the entrance requirements of CBU, will receive credit for eight full courses (48 credits) toward the BACS degree. These credits will include six credits for COMS1100 and three credits each for COMS2101 and COMS3101. A total of seven full courses must be completed in accordance with the structural requirements of the degree program.

TECHNOLOGY-BACS TRANSFER

The aim of this arrangement is to allow diploma students to take advantage of the unique nature of CBU, in order that they may complete the requirements for a Bachelor of Arts Community Studies degree after they have graduated from a technology co-op diploma program. In order to meet the academic criteria of the BACS degree program, Co-op Technology graduates will receive:

- A block of credits equal to the four career related courses, two electives and COMS1100, COMS2101 and COMS3101
- And will be required to: successfully complete arts and science courses: four traditional courses in one discipline (academic concentration – 24 credits), two Community Studies Courses (COMS2100 and COMS3100 – 6 credits each), and one elective course (6 credits).

NOVA SCOTIA COMMUNITY COLLEGE (NSCC) & NEW BRUNSWICK COMMUNITY COLLEGE (NBCC)

Articulation agreements with NSCC and NBCC, grant students with an eligible one-year diploma, credit for four courses (24 credits): two electives plus two career related courses OR two electives, one career related course and one related studies course under the academic column. In addition, if a student has completed a work term as part of the one-year diploma, he or she will also receive credit for COMS2101 (3 credits). Students with the one-year diploma DO NOT receive credit for COMS1100.

Students completing an eligible two-year diploma, receive credit for a total of eight courses (48 credits): two electives, four career related courses, COMS1100 and COMS1101 and COMS3101 OR two electives, three career related courses, one related studies course under the academic column, COMS1100, COMS1101 and COMS3101.

ATLANTIC POLICE ACADEMY (APA)

Students who have graduated from the APA in Prince Edward Island and have met the entrance requirements of CBU will receive credit for up to five full courses. These credits will include COMS2101 and COMS3101 and up to 24 additional credits. The exact courses will depend upon individual transcripts.

Note: Graduates of these programs may be awarded the BACS degree upon fulfilment of the requirements as outlined above.

PRIOR LEARNING ASSESSMENT (PLA)

CBU recognizes the value of both formal and informal learning and may grant academic credit for skills and knowledge gained outside traditional studies. See the Prior Learning Assessment and Recognition section of this calendar for details.

DEPARTMENTAL REGULATIONS

Anthropology and Sociology

Students interested in concentrating in Anthropology and/or Sociology can find out more about the program requirements by consulting the department chair or the relevant section of the University's web site. Students majoring in Anthropology and/or Sociology must consult annually with the department chair before choosing their courses for the coming year.

Sociology and Anthropology are separate but overlapping disciplines. This unity in difference creates a special opportunity to students choosing fields of concentration in the BA. Both Anthropology and Sociology are considered teachable subjects by the Nova Scotia Department of Education. A student may study Anthropology as one separate field and Sociology as another separate discipline, or a student may combine Anthropology and Sociology and use them as one field. Courses which are labelled AN/S may be counted as either Anthropology or Sociology in the BA degree where either of these is used as a separate discipline for concentration and the same is true for teachables.

THREE-YEAR GENERAL DEGREE

Strongly recommended: six credits in research methods (AN/S2210 or AN/S2212).

If using Anthropology and Sociology as two separate disciplinary concentrations (such as five in Anthropology and electives in Sociology), any specific course (such as AN/S1200) counts in only one of those concentrations.

- In Anthropology: five courses (30 credits) in ANTH and/or AN/S, including six credits above the 2000 level.
- In Sociology: five courses (30 credits) in SOCO and/or AN/S, including six credits above the 2000 level.
- Joint Anthropology-Sociology: five courses (30 credits) in ANTH and/or SOCO and/or AN/S, including six credits above the 2000 level.

FOUR-YEAR MAJOR DEGREE IN ANTHROPOLOGY AND/OR SOCIOLOGY

Each student's major program must be approved by the Chair of the Department of Anthropology and Sociology. Students can major in Anthropology or in Sociology or in a joint Anthropology/Sociology combination, under any one of the three structures of the BA. Detailed course requirements for any and all of these options are shown on the chart on the next page.

If using Anthropology and Sociology as two separate disciplinary concentrations (such as a major in Sociology and a Minor in Anthropology), any specific course (such as AN/S1200) counts only in one of those concentrations.

HONOURS DEGREE IN ANTHROPOLOGY OR SOCIOLOGY

Honours is like a major, but students studies are more specialized more (50% of courses are in the discipline of concentration) and higher marks are required. The Honours Program suits many career goals. It is not only for aspiring anthropologists or sociologists. But if the students plans include postgraduate study in one of those fields, honours is typically a must. Students take honours if they have four qualities: (1) they are committed to being a well-educated person; (2) they especially enjoy this subject; (3) they have strong academic ability, (4) they are ready to work intensively.

Total credits needed: The entire BA Honours degree requires 120 credits, which include: (a) the 36 credits of the four-year BA core; (b) 24 credits of free electives; and (c) 60 credits in the specialty subject (as specified in C and D, below, for Anthropology and for Sociology respectively.) Note that certain Anthropology and Sociology courses also satisfy parts of the core and, when selecting courses, you should discuss this opportunity with faculty advisors in the department.

Planning and consulting: As soon as students finish introductory (AN/S1200), they start choosing courses to suit long-range goals and consulting professors. However, they must complete half of the BA program (60 credits) before they are eligible to apply to switch into Honours. Before applying, students meet with the chair of the department to organize the procedure.

SCHOOL OF ARTS AND SOCIAL SCIENCES

Acceptance into honours, halfway through the degree: To switch into the honours program, students need: (a) a 65% average in each of your first two years (across all courses in all subjects, totalling 60 credits); and (b) for Honours Anthropology, 70 in each ANTH and AN/S course taken in that period, or for Honours Sociology, 70% in each AN/S and SOCO course taken in that period (See exception below).

Completing the second half of the degree: To graduate with honours, you also need: (a) a 70% average in each of the final two years (across all courses in all subjects, totalling another 60 credits); and (b) 75% in each ANTH and AN/S course taken in that period, or for Honours Sociology , 70% in each AN/S and SOCO course taken in that period (See exception below).

Exception: Suppose students have marks lower than the 70% or 75% stipulated above for AN/S, ANTH, or SOCO courses, are they then blocked from doing honours? Not necessarily. Students can still count such a course toward the degree (e.g., as an elective or, where appropriate, in the BA core), but not as part of the Anthropology or Sociology specialty.

COURSES REQUIRED FOR HONOURS ANTHROPOLOGY

The entire degree in Honours Anthropology requires a total of 120 credits, which include: (a) the 36 credits of the four-year BA core; (b) 24 credits of free electives, and (c) 60 credits in ANTH and/or AN/S as follows:

- 6 credits AN/S1200 Introduction to Anthropology & Sociology or equivalent.
- 6 credits AN/S2210 Qualitative Research Methods in Social Science or AN/S2212 Quantitative Research Methods and Statistics in Social Science. Students are encouraged to take both, but AN/S2210 is typically the top priority for anthropologists.
- 6 credits ANTH3100 Survey of Anthropological Theory.
- 12 credits of subfield(s) other than general sociocultural. For example: AN/S2200, ANTH2101, ANTH2103, ANTH2100, ANTH3102, ANTH3110.
- 6 credits of 4000-level honours thesis course (ANTH or AN/S4900).
- 6 credits of 4000-level in ANTH and/or AN/S besides the honours thesis
- 12 credits of 3000-level besides ANTH3100. May include courses in the subfields category (above). May replace some of this 3000-level category with additional 4000-level credits.
- 6 credits of unspecified ANTH and/or AN/S electives at any level (2000 or above).

COURSES REQUIRED FOR HONOURS SOCIOLOGY

The entire degree in Honours Sociology requires a total of 120 credits, which include: (a) the 36 credits of the four-year BA core; (b) 24 credits of free electives; and (c) 60 credits in AN/S and/or SOCO as follows:

- 6 credits AN/S1200 Introduction to Anthropology & Sociology or equivalent
- AN/S2210 Qualitative Research Methods in Social Science or AN/S2212 Quantitative Research Methods and Statistics in Social Science. You are encouraged to take both. For graduate school in Sociology, typically you must have AN/S2212.
- 6 credits SOCO3300 Survey of Sociological Theory
- 6 credits of 4000-level honours thesis course (AN/S or SOCO4900).
- 6 credits of 4000-level in AN/S and/or SOCO besides the honours thesis.
- 12 credits of 3000-level besides SOCO3300. May replace some of this 3000-level category with additional 4000-level credits.
- 18 credits of unspecified ANTH and/or AN/S electives at any level (2000 or above).

SCHOOL OF ARTS AND SOCIAL SCIENCES

MAJOR-MINOR PROGRAM (MAJOR – 42 CREDITS, MINOR – 18 CREDITS)		
ANTHROPOLOGY MAJOR	**SOCIOLOGY MAJOR**	**JOINT ANTHROPOLOGY/SOCIOLOGY MAJOR**
1 Intro (AN/S1200)	1 Intro (AN/S1200)	1 Intro (AN/S1200)
1 theory (3100)	1 theory (3300)	1 theory (3100 or 3300)
1 methods (2210 or 2212)	1 methods (2210 or 2212)	1 methods (2210 or 2212)
1 physical, archaeological &/or linguistic anthro		
1 4000 level ANTH or AN/S	1 4000 level ANTH or AN/S	1 4000 level ANTH, SOCO or AN/S
2 ANTH &/or AN/S electives	3 SOCO &/or AN/S electives	3 ANTH, SOCO, &/or AN/S electives
Anthropology Minor	**Sociology Minor**	**Joint Anthropology/Sociology Minor**
1 Intro (AN/S1200)	1 Intro (AN/S1200)	1 Intro (AN/S1200)
2 ANTH &/or AN/S electives	2 SOCO &/or AN/S electives	2 ANTH, SOCO, &/or AN/S electives

DOUBLE MAJOR PROGRAM (FIRST MAJOR – 36 CREDITS, SECOND MAJOR – 24 CREDITS)		
ANTHROPOLOGY FIRST MAJOR	**SOCIOLOGY FIRST MAJOR**	**JOINT ANTHROPOLOGY/SOCIOLOGY FIRST MAJOR**
1 Intro (AN/S1200)	1 Intro (AN/S1200)	1 Intro (AN/S1200)
1 theory (3100)	1 theory (3300)	1 theory (3100 or 3300)
1 methods (2210 or 2212)	1 methods (2210 or 2212)	1 methods (2210 or 2212)
1 4000 level ANTH or AN/S	1 4000 level SOCO or AN/S	1 4000 level ANTH , SOCO or AN/S
2 ANTH &/or AN/S electives	2 SOCO &/or AN/S electives	2 ANTH , SOCO &/or AN/S electives
Anthropology Second Major	**Sociology Second Major**	**Joint Anthropology/Sociology Second Major**
1 Intro (AN/S1200)	1 Intro (AN/S1200)	1 Intro (AN/S1200)
3 ANTH &/or AN/S electives	3 SOCO &/or AN/S electives	3 ANTH, SOCO &/or AN/S electives

AREA MAJOR PROGRAM (FIRST MAJOR – 36 CREDITS, SECOND MAJOR – 24 CREDITS)		
ANTHROPOLOGY FIRST MAJOR	**SOCIOLOGY FIRST MAJOR**	**JOINT ANTHROPOLOGY/SOCIOLOGY FIRST MAJOR**
1 Intro (AN/S1200)	1 Intro (AN/S1200)	1 Intro (AN/S1200)
1 theory or methods (3100 or 2210)	1 theory or methods (3300,2201 or 2212)	1 theory or methods (3100, 3300, 2210, or 2212)
1 4000 level ANTH or AN/S	1 4000 level SOCO or AN/S	1 4000 level ANTH , SOCO or AN/S
1 ANTH &/or AN/S electives	1 SOCO &/or AN/S electives	1 ANTH , SOCO &/or AN/S electives
Anthropology Second Major	**Sociology Second Major**	**Joint Anthropology/Sociology Second Major**
1 Intro (AN/S1200)	1 Intro (AN/S1200)	1 Intro (AN/S1200)
3 ANTH &/or AN/S electives	3 SOCO &/or AN/S electives	3 ANTH, SOCO &/or AN/S electives
Anthropology Third Major	**Sociology Third Major**	**Joint Anthropology/Sociology Third Major**
1 Intro (AN/S 1200)	1 Intro (AN/S 1200)	1 Intro (AN/S 1200)
2 ANTH &/or AN/S electives	2 SOCO &/or AN/S electives	2 ANTH, SOCO, &/or AN/S electives

Celtic Culture

THREE-YEAR GENERAL DEGREE

- 30 Celtic Culture credits (a minimum of 12 credits at the 3000 level or higher)
- Students must choose courses from at least three of the four groups listed below
- Six credits minimum in Gaelic language (any GAEL course)

GROUP 1	GROUP 2	GROUP 3	GROUP 4
Ethnomusicology/Folklore	**History**	**Literature**	**Religion**
MUSI2201 or FOLK2103: Introduction to Gaelic Song	HIST2102: Celtic History	ENGL2461: Celtic Revival in Literature	RELS2104: Celtic Religion I: Druidism
MUSI2203 or FOLK2104: Introduction to Celtic Instrumental Music	HIST3101: Modern Ireland, 1603-1848	ENGL2463: Modern Celtic Literature	RELS273: Celtic Religion II: Christianity
MUSI2251 or FOLK2105: Social History of Celtic Music & Dance	HIST3103: Modern Ireland, 1848-2000		
MUSI2221 or FOLK2107: Early Canadian Celtic Music	HIST3122: Modern Scottish Highlands		
MUSI2223 or FOLK2108: Contemporary Canadian Celtic Music	HIST3130: Viking World		
MUSI2211 or MUSI2109: Cape Breton Fiddle			
MUSI2213 or MUSI2111: Fiddle Music for Dancing			
MUSI2911 Cape Breton Fiddle Composers			
MUSI2915: Evolution of the Cape Breton Fiddle Style			

Communication

Students interested in completing a Bachelor of Arts (BA) degree in Communication can find out more about the following degree requirements by consulting the Department Chair or referring to the Communication Department Website.

(I) 3-YEAR GENERAL DEGREE (90 TOTAL CREDITS)

1. BA Core (30 credits)
2. Speciality: Communication (30 credits)
3. Electives (30 credits)

(**II) 4-YEAR MAJOR DEGREES (120 TOTAL CREDITS)**

A. Major/Minor (120 credits)

1. BA Core (36 credits. Includes Communication 4800/4900 in Group 6)
2. Major: Communication (42 credits. **Note:** *Communication 2101 (formerly COMM261): Research Concepts and at least 3 credits at the 4000-level [Communication 4101, 4103, 4104 or 4105] required. No more than 9 credits at the 1000-level permitted*.)
3. Minor (18 credits)
4. Electives (24 credits)

B. Double Major (120 credits)

1. BA Core (36 credits. Includes Communication 4800/4900 in Group 6)
2. 1st Major: Communication (36 credits. **Note:** *Communication 2101 (formerly COMM261): Research Concepts and at least 3 credits at the 4000-level [Communication 4101, 4103, 4104 or 4105] required. No more than 9 credits at the 1000-level permitted.*)
3. 2nd Major (24 credits)
4. Electives (24 credits)

C. Area Major (120 credits)

1. BA Core (36 credits. Includes Communication 4800/4900 in Group 6)

2. 1st Major: Communication (24 credits. **Note:** *At least 3 credits at the 4000-level [Communication 4101, 4103, 4104 or 4105] required. No more than 9 credits at the 1000-level permitted.*)
3. 2nd Major (24 credits)
4. 3rd Major (18 credits)
5. Electives (18 credits)

(III) 4-YEAR HONOURS DEGREE (120 credits)
The BA Honours Communication is a 4-year program designed to prepare students for graduate school as well as careers. To be admitted, students must have an overall average of 65% and an average of 70% in Communication courses in the first two years of study. To complete the program, students must attain an overall average of 70% and an average of 75% in Communication courses taken in the last two years of the program. Honours students complete Honours Thesis (Communication 4910). For more information, please consult the Department Chair.
1. BA Core (36 credits. Includes Communication 4910 in Group 6)
2. Major: Communication (60 credits. **Note**: *Communication 2101 (formerly COMM261): Research Concepts and at least 3 credits at the 4000-level [Communication 4101, 4103, 4104 or 4105] required. No more than 9 credits at the 1000-level permitted.*)
3. Electives (24 credits)

English

Students who intend to major in English must consult the department chair before planning their program. For purposes of degree requirements in programs, the department clusters its courses into the following groups:

GROUP 1	GROUP 2	GROUP 3	GROUP 4	GROUP 5	GROUP 6
Medieval/Linguistics	**Renaissance**	**18th and 19th Century**	**Modern British, Irish, American and Canadian**	**Theory**	**Survey, Thematic, Creative Writing**
ENGL3120	ENGL2200	ENGL2441	ENGL3442	ENGL3501/3503	ENGL2624/DRAM2621 AND ENGL2625/DRAM2623
ENGL2100	ENG3200	ENGL2300	ENGL3440	ENGL4522	ENGL2640
ENGL3122	ENGL3201/3203	ENGL3320	ENGL3400	ENGL4501/4503	ENGL3621/3623
ENGL4140	ENGL2240	ENGL2340	ENGL2400		ENGL3681
	ENGL3241/3243	ENGL2360	ENGL2420		ENGL3686
	ENGL4720	ENGL3360	ENGL3420		ENGL2642
	ENGL4721	ENGL3321	ENGL3421/3423		ENGL3424
	ENGL4200	ENGL2384/2685	ENGL2461/2463		ENGL3640
	ENGL4240	ENGL4360	ENGL3441		ENGL3652
		ENGL4362	ENGL3684/3685		ENGL3683
			ENGL4401/4403		ENGL3684
			ENGL4410		ENGL3685
			ENGL4620		
			ENGL4622		

The placement of special topics courses shall be determined by subject.

THREE-YEAR GENERAL DEGREE
Five courses (30 credits) in English, six credits of which must be at the 4000 level. Students must take a course (or 6 credits) from at least three of the six groups. See categories 1 - 6 listed above.

SCHOOL OF ARTS AND SOCIAL SCIENCES

FOUR-YEAR MAJOR DEGREE (BA and BACS)

Major with Minor: Seven English courses (42 credits) are required, at least 12 credits of which must be at the 4000 level, exclusive of the ENGL4800 or ENGL4900. The 42 credits must include 3640 (The British Literary Tradition), a course in Shakespearean drama, one course (6 credits) from each of groups 1, 2, 3, 4 and 5. Students may count the Shakespeare courses towards the group 2 requirement. Additional credits can be taken from any of the six groups listed above.

English with Specialization in Dramatic Literature (Major with Minor): Seven English courses (42 credits) are required. Four courses (24 credits) must be in dramatic literature and one of those must be ENGL2240. The remaining three dramatic literature courses (18 credits) may be chosen from ENGL3122, ENGL3241, ENGL3243, ENGL3320, ENGL2642, ENGL3321, ENGL3441, ENGL4620 and ENGL4240. Additionally, two courses (or 12 credits) must be at the 4000 level, exclusive of ENGL4800 or ENGL4900. Overall, students must have at least one course (or 6 credits) in each of three different groups (see groups 1-6 listed above).

DOUBLE MAJOR

Six English courses (36 credits) are required, including ENGL3640 and at least six credits at the 4000 level, exclusive of ENGL4800 or ENGL4900. Students are also expected to take one course (or 6 credits) from each of three distinct literary periods (choose from groups 1-4).

Double Major in Literature and Languages

First Major: Six English Literature courses (36 credits) are required, three of which must be chosen from at least three distinct literary periods (groups 1-4), one of which must be at the 4000 level (exclusive of ENGL4800 or ENGL4900).

Second Major: Four courses (24 credits) are required, two of which must be French courses (12 credits) at the intermediate level or above (as determined by the department) and two of which are in a language other than English, but may include French.

In either the first or second major, students must complete six credits in the history of language or language theory (e.g. ENGL2100, FRNC3101, FRNC3102)

AREA MAJOR

Students may choose four English courses (24 credits).

HONOURS DEGREE

The BA Honours English is a four-year program designed to prepare students for graduate studies in English as well as careers such as teaching, law, journalism, public relations and advertising. Students should consult the department chair before planning their program.

Admission to the BA Honours English - Students normally apply for admission to the program after successfully completing the first two years of study. In order to be accepted students must have:

- Achieved an average of not less than 65% in each of the first two years;
- Achieved a grade of not less than 70% in each English course taken during the first two years.

Students are also required to achieve an overall average of 70% and a grade of at least 70% in each English course in the third and fourth years of the BA Honours English program.

Honours Program Structure

Students must complete:

- The BA core program
- At least 10 English courses (60 credits), but no more than 12 (72 credits), at least 12 credits of which must be at the 4000 level; exclusive of ENGL4800 or ENGL4900.
- 24 credits electives

The following courses are compulsory:
- The British Literary Tradition (ENGL3640)
- 6 credits from group 1
- 12 credits from group 2, of which 6 credits must be a Shakespeare course (ENGL2240 or ENGL4240)
- 6 credits from group 3
- 12 credits from group 4, of which 6 credits must be Canadian Literature
- 6 credits from group 5
- Honours thesis (ENGL4900) 6 credits (included in core requirements)

Remaining credits may be taken from any grouping.

First Class Honours: A candidate who has satisfied all of the requirements of the BA Honours and has also achieved an average of 80% or higher in English courses during the final two years of the program, will be awarded the distinction of first class honours.

A candidate who fails to satisfy one or more of the requirements for the BA Honours may be eligible for the major degree provided that all of the requirements for the major have been satisfied.

Ethnomusicology

MINOR

An Ethnomusicology minor consists of at least 18 credits, which must include the following nine credits which are core requirements:
- MUSI1114 Experiencing Music (3 credits)
- MUSI2101 Music and Culture (3 credits); and
- MUSI3101 Musics of the World (3 credits)

The remaining nine credits for the minor can be made up from other ETHM courses

THREE-YEAR GENERAL DEGREE

Thirty (30) credits in Ethnomusicology, including the following required courses:

- MUSI1114 Experiencing Music (3 credits)
- MUSI2101 Music and Culture (3 credits)
- MUSI3101 Musics of the World (3 credits)

Students must also take a minimum of twelve Ethnomusicology credits at the 3000-level or above.

Folklore

Students majoring in Folklore must consult annually with the program coordinator before choosing their courses for the coming year.

For purposes of degree requirements, Folklore courses at the 2000 and 3000 levels are clustered into the following groups. All are three credits unless indicated otherwise.

Group A – **Atlantic Canada Regional Studies**: 2101, 2104, 2105 (MUSI2251), 2107 (MUSI2221), 2108 (MUSI2223), 2111 (MUSI2201),2113 (MUSI2203), 2261 (MUSI2214), 2403 (MUSI2301),.

Group B – **Folklore Themes and Genres**: 2103, 2401, 2404, 2405, 2406, 2407, 2501, 2503, 3201, 3203, 3400, 3403, 3511 (ETHM/MUSI3511) MUSI3301, MUSI3601

To take 3000 or 4000 level courses, nine credits of Folklore are required (unless otherwise indicated), including:

- FOLK1101 and 1103
- plus 3 credits at the 2000 level

Students who intend to major in Folklore are encouraged to take FOLK1101, FOLK1103 and a 2000 level course during their first year.

THREE-YEAR GENERAL DEGREE

Thirty credits in Folklore of which 12 must be from the 3000-level or above. (Note prerequisites for 3000 level courses.)

FOUR-YEAR MAJOR DEGREE (BA AND BACS)

Major/Minor: A major in Folklore is comprised of 42 credits for the Bachelor of Arts degree (BA), or 42 to 48 for the Bachelor of Arts in Community Studies (BACS).

Required:
- FOLK1101 and FOLK1103
- 6 credits at the 4000 level
- 12 credits at the 3000 or 4000 level
- 12 credits from Group A (Atlantic Canada Regional Studies)
- 12 credits from Group B (Folklore Themes and Genres)
- 6 credits from Group A or Group B

Double Major: A Double Major program with Folklore as the first major is comprised of 36 credits.

Required:
- FOLK1101 and FOLK1103
- 6 credits at the 4000 level
- 9 credits at the 3000 or 4000 level
- 9 credits from Group A (Atlantic Canada Regional Studies)
- 9 credits from Group B (Folklore Themes and Genres)
- 6 credits from Group A OR Group B

A double major program with Folklore as the second major is comprised of 24 credits.

Required:
- FOLK1101 and FOLK1103
- 6 credits at the 4000 level
- 6 credits at the 3000 or 4000 level
- 6 credits from Group A (Atlantic Canada Regional Studies)
- 6 credits from Group B (Folklore Themes and Genres)
- 6 credits from Group A or Group B

Area Major: An area major with Folklore as the first major is comprised of 24 credits.

Required:
- FOLK1101 and FOLK1103
- 6 credits at the 4000 level
- 3 credits at the 3000 or 4000 level
- 3 credits from Group A (Atlantic Canada Regional Studies)
- 3 credits from Group B (Folklore Themes and Genres)
- 6 credits from Group A or Group B

Students interested in having Folklore as their second or third major should consult with the program coordinator.

Minor: A minor in Folklore is comprised of 18 credits: students are encouraged to take at least six of these credits at the 3000 level or above, being aware of prerequisites.

Gaelic

MINOR

Students wishing to minor in Gaelic must take a minimum of 18 credits in either the four-year BA program or the four-year BACS program, as follows:

- GAEL1101/1103: Gaelic Language I & II
- GAEL2101/2103: Advanced Gaelic Language I & II
- GAEL3101/3103: Advanced Gaelic Language III & IV

Students wishing to minor in Gaelic are strongly encouraged to take an exchange year at Sabhal Mor Ostaig, the Gaelic College in Scotland.

History

Students majoring in History must consult annually with the department chair before choosing their courses for the coming year.

GENERAL REGULATIONS

1. Students may not take both HIST1100 and HUMA1101/1106 for credit. HIST1100 is recommended for intending majors.
2. Students taking all second, third and fourth year history courses must have completed HIST1100 or the equivalent of the Humanities core (which includes any six credit combination of Humanities, Philosophy or Religious Studies on the 1000 level). Students without this prerequisite may take upper level history courses but they must have the permission of the instructor or the Department Chair. Those wishing to take courses at the 4000 level must have completed at least 12 credits in History at the 2000 or 3000 level.

THREE-YEAR GENERAL DEGREE

Students are required to take HIST1100 or Humanities core; 12 credits in North American and 12 credits in European/British, including 6 credits in each area at the 2000 level and 6 credits at the 3000 level; and an additional 6 credits at the 3000 level or above.

FOUR-YEAR MAJOR DEGREE

- All Programs: HIST1100 or HUMA core; 12 credits in North American and 12 credits in European/British, including 6 credits in each area at the 2000 level and 6 credits at the 3000 level.
- Major with minor: 18 additional credits, 12 of which are at the 4000 level. Also, History 4800.
- Double Major (History as first subject): 12 additional credits, including 6 credits at the 4000 level. Also, History 4800.
- Area Major: HIST4800 (unless a comparable course is offered in another subject).

Note: It is recommended that students pursuing a career in teaching take at least six credits of Canadian History at the 2000 level in any combination of HIST2101/2103 or HiIST2104/2105.

FOUR-YEAR HONOURS DEGREE

The BA Honours in History is a four-year program designed to prepare students for graduate studies in History as well as other fields of endeavour where a more specialized program of study is deemed desirable.

Students must consult with the department chair before registering in this program.

Admission: Students may apply for admission to the program after successfully completing two full years of study (60 credits). In order to be accepted they must: have achieved at least 75% in each of the first two years of study, and have achieved a grade of at least 75% in each course in the major subject.

Completion of the Degree: In each of the third and fourth years students must maintain an overall average of 75% and a grade of at least 75% in each History course.

First Class Honours: First class honours will be granted to those students who achieve an average of 80% or higher in History courses completed during the final two years of the BA program and who have satisfied all other degree and program requirements.

PROGRAM STRUCTURE

- BA core program (six full courses), including HIST4900, thesis option.
- At least ten full courses in History (including HIST1100 or the Humanities core).
- At least one course in a language other than English at the 2000-level or higher; obviously students lacking adequate preparation will need to begin with a 1000-level course in the chosen language. Students may fulfil this requirement by taking ENGL4140, Introduction to Old English.
- Two to four free electives (depending upon item 3, above), which may be additional courses in History (not subject to the 75% requirement, above).
- Distribution of History courses must include the criteria under (1) for four-year majors (provision for courses from both North American and European/British areas); also students must take HIST3100, Historiography.
- Students must take at least three History courses at the 4000 level (including HIST4900, undergraduate thesis).
- HIST4900: A student must submit her/his thesis proposal to the department chair in early September of the academic year in which the student intends to graduate. The chair, in consultation with the department, will assign a supervisor to the student upon approval of the proposal. The preparation of theses will be subject to departmental regulations and procedures and will include seminars with student peers and a public defence.

Mathematics

THREE-YEAR GENERAL DEGREE

Students in the three-year BA can specialize by acquiring 30 credits in Mathematics. Students must take MATH1105, 1206, 1204, twelve credits in Mathematics at the 3000 level or above and nine additional credits in Mathematics.

FOUR-YEAR MAJOR DEGREE

Students majoring in Mathematics (42 credits) shall take MATH1105, 1206, 1204, 2109, 2101, at least 3 credits in Math statistics, at least 12 credits at the 3000 level or above and 12 additional credits in Mathematics, also 6 additional credits at the 4000 level in Core (Group 6).

Students minoring in Mathematics (18 credits) shall include at least MATH1101 or 1105, and 1204 among the courses offered.

FOUR-YEAR DOUBLE MAJOR

Students using Mathematics as their first area of major (36 credits) shall take MATH1105, 1206, 1204, 2109, 2101, 3 credits in Math statistics, at least 12 credits at the 3000 level or above and 6 additional credits in Mathematics, also 6 additional credits at the 4000 level in Core (Group 6).

Students using Mathematics as their second area of major (24 credits) shall take MATH1105, 1206, 1204, at least one of 2109 or 2208, at least one of 2101 or 2103, 3 credits in Mathematics at the 3000 level or above and 6 additional credits in Mathematics.

FOUR-YEAR AREA MAJOR:

Students using Mathematics as Subject A or B (24 credits) shall take MATH1105, 1206, 1204, at least one of 2101 or 2103, three credits in Mathematics at the 3000 level or above, and nine additional credits in Mathematics, also 6 additional credits at the 4000 level in Core (Group 6)

Students using Mathematics as Subject C (18 credits) shall include at least MATH1101 or 1105 and 1204 among the courses offered.

Limitations: None of MATH0101, 1114, 1215 (formerly 151), 1107 or 1208 may be used to satisfy any of the subject requirements listed above.

Mi'kmaq Studies

1. BA/BACS: Concentration, Major and/or Minor (Mi'kmaq Studies)
2. Electives: BA /BACS /BBA (Mi'kmaq Studies)
3. BScCS: Concentration (Integrated Science/ *Toqwa'tu'kl Kjijitaqnn*)
4. Electives: (MSIT)
5. Mi'kmaq Studies as teachables for the BEd

MI'KMAQ STUDIES COURSES as teachables for the BEd

Mi'kmaq Studies courses are recognized as a teachable for application to Nova Scotia BEd Programs.

NOTE:

For purposes other than the BScCS Toqwa'tu'kl Kjijitaqnn, MSIT1101, MSIT1103, MSIT2101, MSIT2103, MSIT3101, MSIT3103, MSIT4101 and MSIT4103 have been designated as science;

Three Year BA/BACS, CONCENTRATION in MI'KMAQ STUDIES

The three-year BA/BACS, concentration in Mi'kmaq Studies, requires completion of 15 courses (90 credits).

BA	**BACS**
5 core courses (30 credits)	4 core courses (24 credits)
5 electives (30 credits) any discipline	3 electives (18 credits) any discipline
5 courses (30 credits) in Mi'kmaq Studies	4 courses (24 credits) career
	4 courses (24 credits) in Mi'kmaq Studies
(See following departmental requirements.)	(See following departmental requirements.)

CONCENTRATION IN MI'KMAQ STUDIES

MIKM1100 (6 credits)	Compulsory
MIKM1102 (6 credits)	Compulsory BA, Optional BACS
(6 credits) of MI'kmaq Studies at the 2000 / 3000 level*	Choice from language/culture
(6 credits) of Mi'kmaq Studies at the 3000 / 4000 level*	Choice from governance/history
MIKM4100 (6 credits)	Compulsory

*Students may not take 3000/4000 level courses without completing six credits at the 1000/2000 level.

4-Year BA/BACS, MAJOR in MI'KMAQ STUDIES

There are 3 Major programs available within the BA/BACS degrees: Major/Minor; Double Major; Area Major. Students who wish to pursue any of the three BA/BACS Majors in Mi'kmaq Studies must choose between two streams of study:

1. Mi'kmaw Language and Culture
2. Mi'kmaw Governance

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Students may enter the major program when they begin the BA/BACS program or they may begin in the three-year program and apply to enter the major program at a later date. The following regulations apply to students seeking admission to the BA/BACS major in Mi'kmaq Studies:

- A student in good academic standing who has achieved an average of at least 60% is eligible for admission to the BA/BACS MAJOR in MI'KMAQ STUDIES. Students who opt for the four-year degree, from the beginning of their program, must maintain a 60% average to remain in the program.

- An average of 65% in years three and four are required to earn a BA/BACS MAJOR in Mi'kmaq Studies.

- A minimum average of 65% is required in the Mi'kmaq Studies courses offered towards the major.

BA/BACS MAJOR in MI'KMAQ STUDIES / MINOR IN RELATED SUBJECT
Core courses: BA/BACS five courses (30 credits)
Electives, any discipline: BA four courses (24 credits), BACS three or four courses (24/30 credits)
MINOR, any discipline: BA three courses (18 credits), BACS three or four courses (24/30 credits)
Directed studies/ thesis option: BA (6 credits) MIKM4800 or 4900, BACS COMS4100

MAJOR: MI'KMAQ STUDIES BA seven courses (42 credits), BACS seven or eight courses (42 or 48 credits)

(See following departmental requirements.)

MAJOR in MI'KMAW GOVERNANCE WITH A MINOR

MIKM 1100		(6 credits)	Compulsory
MIKM 1102		(6 credits)	Compulsory
MIKM 2220		(6 credits)	Compulsory
MIKM 3120*		(6 credits)	Compulsory
MIKM	BA 12 credits, BACS 18 credits:		Choice 3000 / 4000* level:
must be from government /history		MIKM	BA/BACS 6 credits:
	Choice 3000/4000* level:		
			must be from the language/culture

*Students may not take 3000/4000 level courses without completing 12 credits at the 1000/2000 level.

MAJOR in MI'KMAW LANGUAGE & CULTURE with a MINOR

MIKM 1100		(6 credits)	Compulsory
MIKM 1102		(6 credits)	Compulsory
MIKM 2113 / 2213 and 2214 / 2215		(12 credits)	Compulsory
MIKM3140* and 3141 / 3143*		(12 credits)	Compulsory
MIKM 4800* or 4900* (6 credits) directed studies/thesis option			Compulsory
MIKM	BA 6 credits, BACS MIKM 6 or 12 credits		Choice from 3000/4000* level courses

*Students may not take 3000/4000 level courses without completing 12 credits at the 1000/2000 level.

BA/BACS Double Major: FIRST MAJOR in MI'KMAQ STUDIES / SECOND MAJOR in related subject
Core courses: BA/BACS five courses (30 credits)
Electives, any discipline: BA four courses (24 credits), BACS three or four courses (24/30 credits)
Minor, any discipline: BA three courses (18 credits), BACS three or four courses (24/30 credits)
Directed studies/ thesis option: BA (6 credits) MIKM4800 OR 4900, BACS (6 credits) COMS4100
Second Major: BA four courses (24 credits), BACS four or five courses (24 or 30 credits)
First Major: Mi'kmaq Stuides: BA seven courses (42 credits), BACS seven or eight courses (42 or 48 credits)

(See following departmental requirements.)

DOUBLE MAJOR with FIRST MAJOR: MI'KMAW GOVERNANCE

BA/BACS

MIKM1100	(6 credits)	Compulsory
MIKM1102	(6 credits)	Compulsory
MIKM2220	(6 credits)	Compulsory
MIKM3120*	(6 credits)	Compulsory
MIKM4100*	(6 credits)	Compulsory
MIKM	(6 credits)	Choice 2101/ 2103 or 2114/2215
MIKM	(6 credits)	Choice any 2000/3000*/4000* level course

BACS

MIKM	(6 credits)	Choice any 2000/3000*/4000* level course

DOUBLE MAJOR with 1st MAJOR: MI'KMAW LANGUAGE & CULTURE

BA/BACS

MIKM1100	(6 credits)	Compulsory
MIKM1102	(6 credits)	Compulsory
MIKM3000*	(6 credits)	Choice (3630* + 3 credits) is recommended
MIKM3140*	(6 credits)	Compulsory
MIKM4140*	(6 credits)	Compulsory
MIKM4100*	(6 credits)	Compulsory

BACS

MI'KM	(6 credits)	Choice any 2000/3000*/4000* level course

*Students may not take 3000/4000 level courses without completing 12 credits at the 1000/2000 level.

BA/BACS Area Major MI'KMAQ STUDIES

The three area majors are generally chosen from three closely related disciplines.

Core courses: BA/BACS five courses (30 credits)
Electives, any discipline: BA three courses (24 credits), BACS two courses (12 credits)
Directed studies/ thesis option: BA (6 credits) MIKM4800 OR 4900*, BACS COMS4100
Third Major: BA 3 (18 credits), BACS four courses (24 credits)
Second Major: BA/BACS four courses (24 credits)
First Major: Mi'kmaq Studies: BA/BACS four courses (24 credits)

See following departmental requirements.

AREA MAJOR with FIRST MAJOR: MI'KMAW GOVERNANCE

BA/BACS

MIKM1100	(6 credits)	Compulsory
MIKM2220	(6 credits)	Compulsory
MIKM3120*	(6 credits)	Compulsory
MIKM4500*	(6 credits)	Compulsory

AREA MAJOR with FIRST MAJOR: MI'KMAW LANGUAGE & CULTURE

BA/BACS

MIKM1100	(6 credits)	Compulsory
MIKM1102	(6 credits)	Compulsory
MIKM3140*	(6 credits)	Choice (3630* + 3 credits) is recommended

MIKM4140*	(6 credits)	Compulsory
MIKM4100*	(6 credits)	Compulsory
BACS		
MIKM	(6 credits)	Choice any 2000/3000*/4000* level course

*Students may not take 3000/4000 level courses without completing 12 credits at the 1000/2000 level.

FOUR YEAR BA, MINOR in MI'KMAQ STUDIES

A MINOR in Mi'kmaq Studies is an excellent option to consider if students are pursuing one of the following majors: Political Science, Anthropology, Sociology, Communication or Folklore.
A minor in Mi'kmaq Studies is made up of 18 credits in Mi'kmaq Studies.

MIKM1100	(6 credits)	Compulsory
MIKM2120, 2220, 3120*, 2222*	(6 credits)	Choice (Mi'kmaw Governance)
MIKM1102; 2110 or 2114; 3140*; 3245*; 3141* or 3145*	(6 credits)	Choice (Mi'kmaw Language & Culture)

*Students may not take 3000/4000 level courses without completing 12 credits at the 1000/2000 level.

ELECTIVES IN MI'KMAQ STUDIES

Mi'kmaq Studies courses may be used as electives within the BA, BACS and BBA and as free electives in the BSc degrees as well as part of the B.Eng transfer program (writing courses only).

Philosophy

THREE-YEAR GENERAL DEGREE

Students in the three-year BA can specialize by acquiring 30 credits in Philosophy. In fact they can take any set of Philosophy courses adding up to 30 credits with only two conditions: that this include PHIL1103 (3 credits) and a total of six credits drawn from PHIL3151, PHIL3153, PHIL3155 or PHIL3157 (3 credit courses). Some students interested in specializing (or making a pair) in Philosophy might have concerns about how Philosophy courses fit into their career plans. These days, however, students taking up professions of all kinds (legal, educational, cultural, health, political, scientific and business) must learn to interpret and resolve value laden issues and situations.

FOUR-YEAR MAJOR DEGREE

Students in the four-year BA can opt for Philosophy in four ways:

1. They may minor by acquiring any 18 credits in Philosophy including PHIL1103 and any 6 credits drawn from courses at the 3000 or 4000 level.
2. They may major by acquiring 42 credits in Philosophy. As the option for the student most serious about philosophy, majoring requires: PHIL4120, PHIL4110 (both 6 credit courses) and 12 credits drawn from PHIL4100, PHIL4112, PHIL4102, PHIL4122, PHIL4130 (all 6 credit courses) chosen in consultation with the department.
3. In the double major option, students must acquire either 36 or 24 credits in Philosophy, including PHIL1103 or PHIL4120 and any 12 credits from 3000 or 4000 level courses.
4. Students interested in an area major should consult a member of the department

Note: All the major programs require students to maintain an overall average of 65% in the last two years of the degree and that the average of all Philosophy courses be at least 65%.

MINOR IN GENDER AND WOMEN'S STUDIES

Gender and Women's Studies (GWST) provides students the opportunity to study the full range of human experience and arrangements of social organization from the perspectives of those whose participation has been traditionally distorted,

omitted, neglected or denied. Students will develop a deep appreciation for complexities of power and asymmetries in gender relations across time, class and cultures. The minor in Gender & Women's Studies is housed in the Department of Philosophy and Religious Studies.

Requirements: Students must take a minimum of 18 credits in either the four-year BA program or the four-year BACS program. The following courses satisfy the requirements for a minor in Gender and Women's Studies:

AN/S2200	Humankind: Nature & Development (6 credits)
AN/S2201	Families: A Cross-Cultural Tour (3 credits)
AN/S3210	[Cross-listed as MIKM3210] Self and Other: Encounter, Traditions and Transformations (6 credits)
AN/S3220	Social & Cultural Constructions of Gender (6 credits)
AN/S3232	Work and Women in Society (6 credits)
COMM3113	Family Communication (3 credits)
COMM3114	Gender & Communication (3 credits)
COMM3115	Women & Communication (3 credits)
ENGL2640	Literature Written by Women: The British Tradition (6 credits)
ENGL4522	Feminist Literary Theory (6 credits)
FOLK3403	Gender in Traditional and Informal Culture (3 credits)
HUMA1107	Women in Western Civilization (3 credits)
HIST4110	Witch Hunting and Popular Culture in Late Medieval and Early Modern Scotland (6 credits)
HIST4120	Women's History: The British North American Experience (6 credits)
PHIL1107	Philosophies of Love, Sex and Friendship (3 credits)
PHIL1109	Feminist Philosophy (3 credits)
POLS2121	The Politics of Social Division: Race, Gender and Class (3 credits)
RELS2191	Women in the Western Religious Tradition (3 credits)
RELS2193	Women in the Eastern Religious Tradition (3 credits)
SOCO2300	Sociology of the Family (6 credits)

Political Science

Requirements: POLS1100 is the prerequisite or co-requisite for all other courses in the discipline unless stated otherwise. Students who intend to major in Political Science are encouraged to take POLS1100 and a 2000 level course during the first year.

THREE-YEAR GENERAL DEGREE

Five courses (30 credits) of Political Science

FOUR-YEAR MAJOR DEGREE

Three major programs are now available and are described in the calendar section on the Bachelor of Arts program. Students planning to take a major or minor in Political Science must have their courses approved by the Political Science Department Chair and the Dean of Arts and Social Sciences.

For Political Science majors in the four year BA, the recommendation for the structure of the degree (42 credits) is as follows: one introductory first-year course, one course in research methods, one course in Canadian Politics and Government, one course in either Public Administration and Public Policy or Law and Policy, one course in International Relations, one course in Political Theory and other courses, freely chosen. Of these 42 credits, 12 credits must be at the 3000 level and 6 credits at the 4000 level.

For the four year degree with double major, the recommendation for the structure of the degree is as follows: one introductory course, at least one course at the 3000 level and at least one course at the 4000 level, two or three other courses can be freely chosen from 2000 or 3000 level courses.

For the area major (three subjects) only four courses in any discipline are required. For Political Science these shall include a 1000 level introductory course, at least two courses at the 2000 or 3000 level and six credits at the 4000 level.

BA HONOURS PROGRAM IN POLITICAL SCIENCE

The department offers an honours program for those students wishing an elevated level of study above that required in the major. This program would normally be undertaken by those wishing to proceed to graduate study in political science, public administration or law.

The structure of the honours program requires completion of the BA core, 60 credits of Political Science courses and electives amounting to 24 credits.

Admission Requirements for BA Honours in Political Science

- Completion of two full years of study (60 credits) with a grade of at least 70% in each Political Science course
- An overall average of 65%.

Completion Requirements

Following admission to the program a student must:

- Achieve an average of at least 75% in Political Science courses completed during the final two years of the BA program
- Achieve an overall average of at least 75%

First class honours will be granted to those students who achieve an average of 80% or higher in Political Science courses completed during the final two years of the BA program and who have satisfied all other degree and program requirements.

Course Requirements

60 credits of Political Science courses including:

- Introductory Political Science six credits;
- One course in Research Methods; three or six credits;
- Honours thesis POLS4900 – six credits;
- Additional Political Science credits, 12 of which are at the 3000 level and 6 of which are at the 4000 level;
- Completion of at least one course in each of these areas:
  - Canadian Politics and Government
  - Public Administration and Public Policy
  - Law and Policy
  - International Relations
  - Political Theory

Psychology

Psychology courses can be taken as part of the BA, BACS, and BSc programs. It is important to note that the core requirements may differ depending on the program. Here is a summary of the required courses in Psychology for each of the BA options:

THREE-YEAR DEGREE

Psychology 1100, plus 24 additional credits in Psychology

FOUR-YEAR MAJOR DEGREE

Major with Minor: PSYC1100, PSYC2101, PSYC2111 PSYC3203, PSYC3211 and PSYC4101. Plus 21 additional credits (including at least 6 credits at the 4000 level in addition to 4101). In the event that students do not have the directed study course, any 6 credits at the 4000 level are acceptable.

Double Major (Psychology as the first Major): PSYC1100, PSYC2101, PSYC2111, PSYC3203, PSYC3211 and PSYC4101. Plus 15 additional credits in Psychology (including at least 6 credits at the 4000 level in addition to 4101). In the event that students do not have the directed study course, any 6 credits at the 4000 level are acceptable.

Area Major: PSYC1100, plus 18 to 24 credits in Psychology.

Honours Degree: PSYC1100, PSYC2101, PSYC2111, PSYC3101, PSYC3203, PSYC3211 and PSYC4101, plus PSYC4900 and enough other courses to earn 60 total credits in Psychology, with at least 12 credits in total at the 4000 level. An average of 75% is required in courses in the Psychology major in last three years of the program

Diploma in Public Administration and Management

The Diploma in Public Administration and Management has been designed to meet the changing needs of the public sector by providing students as well as managerial practitioners with the skills required for the new public administration. The program is composed of 42 credits, of which 24 are deemed compulsory. These courses, derived from the fields of Political Science and Business Administration, provide students with knowledge in public sector management from both areas of study. Students may choose electives from a range of Political Science, Business Administration and Economics courses, with a requirement that a significant portion of their electives be chosen from the latter two disciplines. This ensures that students graduating with the diploma have a solid foundation, not only in the Political Science perspectives with regard to public sector management, but also those understandings deriving from Business Administration and Economics.

The diploma program includes a work-study internship option, POLS3801, whereby internships are provided to diploma students through our internship co-ordinator. This approach will allow diploma students to work in the public or para-public sector and to receive academic credit for their work.

Course topics include, an introduction to Canadian public administration, an introduction to Canadian business and management, Canadian government and administrative law, micro and macro economics, public sector financial and personnel management, restructuring in the public sector, introduction to marketing and marketing for non-profit organizations, issues in Canadian public administration, research methods, money and banking policy, leaders and leadership, Canadian provincial government, policy studies and an internship option.

Students can apply for credit or advanced standing based on past educational and career accomplishments. They may also substitute up to six credits from relevant courses in other disciplines.

PROGRAM REQUIREMENTS

The diploma requires 42 credits, five additional 3 credit courses over and above the Certificate in Public Administration.

COMPULSORY COURSES (Total 18 Credits)

POLS2110 Introduction to Canadian Public Administration (6 credits)
MGMT1601 Introduction to Canadian Business (3 credits)
POLS2161 Research Methods (3 credits)
ECON1103 Principles of Macroeconomics (3 credits)
POLS3111 Canadian Public Administration: Financial Management, Personnel Administration (3 credits)

OR

ECON4101 Public Finance (3 credits)
POLS3143 Canadian Government and Administrative Law (3 credits)
POLS3801 Directed Independent Study, Junior Level (3 credits)

OR

MGMT3701 Special Topics (3 credits)

ELECTIVE COURSES (Total 18 Credits)
Elective courses are derived from CBU's offerings in the disciplines of Political Science, Business Administration and Economics. Eighteen elective credits are required, of which six credits must come from a combination of Business Administration or Economics courses. The remaining 12 credits are to be derived from Political Science courses.

Political Science Electives
POLS3103 Local Government in Canada (3 credits)
POLS3104 Issues in Canadian Local Government (3 credits)
POLS3121 Leaders and Leadership (3 credits)
POLS3114 Issues in Public Administration (3 credits)
POLS3115 Introduction to Policy Studies (3 credits)

Business Administration Electives
MRKT1301 Introduction to Marketing (3 credits)
MGMT2604 Organizational Behaviour (3 credits)
MRKT3301 Marketing Management (3 credits)
MGMT3605 Human Resource Management (3 credits)
MRKT4305 Marketing for Non-Profit Organizations (3 credits)
MGMT4604 Organizational Development (3 credits)

Economics Electives
ECON2106 Canadian Economics Issues and Problems (3 credits)
ECON3101 Money & Banking I (3 credits)
ECON4101 Public Finance I (3 credits)

For information contact Andrew Molloy at (902) 563-1858 or andrew_molloy@cbu.ca

Certificate Programs

Certificate in Ethnomusicology

Students wishing to earn the Certificate in Ethnomusicology must take a minimum of twenty-four (24) credits (which may be used towards a degree), as follows:

MUSI1101	Experiencing Music (3 credits)
MUSI 2101	Music and Culture (3 credits)
MUSI3101	Musics of the World (3 credits)
MUSI3801	Independent Study in Ethnomusicology (pending approval)
Electives	MUSI (12 credits minimum)

Students taking the Certificate in Ethnomusicology must consult annually with a faculty member in the department before choosing courses for the coming year.

Certificate in Theatre Arts

The Certificate in Theatre Arts came about as a logical step in CBU's long tradition of theatre production. All of the courses associated with the certificate are accredited and can be applied toward a Bachelor of Arts or another relevant degree at CBU. The program has been designed to serve undergraduate students at CBU, as well as members of the general public - teachers, adult educators, community theatre workers, arts administrators, cultural tourism officers - who want to develop their knowledge of theatre by studying in a university setting.

Complete 12 Credits

- ENGL1600 Introduction to Literature (6 credits)
- DRAM1101 Introduction to Play Production OR
- FINA103 Philosophy of Art (3 credits)
- DRAM3901 Directed Study chosen in consultation with department chair (3 credits)

Complete 6 Credits (Choose one, all courses 6 credits)

- ENGL3122 Medieval Drama
- ENGL3241/3243 Renaissance Drama I & II
- ENGL2240 Shakespeare
- ENGL3320 Restoration and Eighteenth Century Drama
- ENGL2642 A Survey of the Drama
- ENGL3321 Nineteenth Century Drama
- ENGL3441 Modern American Drama
- ENGL4620 Modern Drama
- ENGL4622 Contemporary Drama
- ENGL4240 Studies in Shakespeare

English 385 can be used to satisfy 3 credits when the special topic is Dramatic Literature.

Complete 12 Credits (Choose four, all courses 3 credits)

- DRAM2101 An Introduction to Acting
- DRAM2201 Introduction to Theatre Directing
- DRAM2203 Theatre for Children
- DRAM3101 Movement for the Theatre
- DRAM3103 Voice for the Theatre
- DRAM1101 Stage Craft
- DRAM3105 Stage Management for the Theatre
- DRAM2621/ENGL2624 Playwriting I
- DRAM2623/ENGL2625 Playwriting II

Certificate in Heritage Studies

The program is designed in response to increased opportunities for employment in the field of arts administration, heritage promotion, cultural programming and multiculturalism. The program will be of particular interest to people within the public and private sector involved in the hospitality industry, tourism education, small business and museums.

Students taking the Certificate in Heritage Studies must consult annually with a faculty member in the department of Heritage and Culture before choosing courses for the coming year.

To complete the certificate, 15 credits are required, as follows:

Group A – **Atlantic Canada Regional Studies**: 2101, 2104, 2105 (MUSI2251), 2107 (MUSI2221), 2108 (MUSI2223), 2111 (MUSI2201),2113 (MUSI2203), 2261 (MUSI2214), 2403 (MUSI2301),.

Group B – **Folklore Themes and Genres**: 2103, 2401, 2404, 2405, 2406, 2407, 2501, 2503, 3201, 3203, 3400, 3403, 3511 (ETHM/MUSI3511) MUSI3301, MUSI3601

1. FOLK1101 and 1103
2. Three credits from Group A FOLK courses (Atlantic Canada Regional Studies): 2403, 2111, 2113, 2105, 2106, 2107, 2108, 2261
3. Three credits from Group B FOLK courses (Folklore Themes and Genres): 2401, 2103, 2404, 2501, 2503, 2405, 2406, 3403, 3511, 3201, 3203, 3400
4. FOLK4801

Certificate in Public Administration

This program is designed for people who are interested in working for the public and para-public sectors, community organizations, social agencies, and advocacy groups. It may also be of interest to private-sector employees who are in contact with government, and those interested in gaining knowledge about public administration and public policy. We are currently living through the greatest period of change in the history of Canada. As our legal, political, and economic systems are transformed, so are our laws and public policies.

General Certificate Compulsory Courses
POLS1100 - 6 credits
POLS2102 - 6 credits
POLS2110 - 6 credits
POLS2161 - 3 credits
POLS3801 - 3 credits

Elective Courses (9 credits)
POLS2141 - 3 credits
POLS2143 - 3 credits
POLS3103 - 3 credits
POLS3104 - 3 credits
POLS3111 - 3 credits
POLS3143 - 3 credits
POLS3114 - 3 credits
POLS3115 - 3 credits
POLS4100 - 6 credits

The Certificate in Public Administration also offers concentrations in Municipal Government, International Studies, Law and Policy Studies, First Nations Affairs as well as the general certificate. Each concentration option consists of 33 credits made up of combinations of Political Science and possibly Economics, Business Administration, Psychology, Sociology and Mi'kmaq Studies courses appropriate to the concentration option.

Certificate in Public Administration – Concentration in Municipal Government

Compulsory Courses
POLS2102 - 6 credits
POLS2110 - 6 credits
POLS2161 - 3 credits
POLS3103 - 3 credits
POLS3104 - 3 credits
POLS3801 - 3 credits

Elective Courses (9 credits)
POLS3121 - 3 credits
POLS3111 - 3 credits
POLS3114 - 3 credits
POLS4110 - 6 credits

Certificate in Public Administration – Concentration in International Studies

Compulsory Courses
POLS1100 - 6 credits
POLS2110 - 6 credits
POLS2161 - 3 credits
POLS3130 - 6 credits
POLS3801 - 3 credits

Elective Courses (9 credits)
POLS2131 - 3 credits
POLS2133 - 3 credits
POLS2134 - 3 credits
POLS2135 - 3 credits
POLS2136 - 3 credits
POLS3131 - 3 credits
POLS3133 - 3 credits
POLS3134 - 3 credits
POLS3135 - 3 credits
POLS3136 - 3 credits
POLS3123 - 3 credits
POLS3137 - 3 credits
POLS4130 - 6 credits

Certificate in Public Administration – Concentration in Law and Policy Studies

Compulsory Courses
POLS1100 - 6 credits
POLS2110 - 6 credits
POLS2161 - 3 credits
POLS2104 - 3 credits
POLS3115 - 3 credits
POLS3801 - 3 credits

Elective Courses (9 credits)
POLS2140- 6 credits
POLS2115 - 3 credits
POLS2141 - 3 credits
POLS2143 - 3 credits
POLS2144 - 3 credits
POLS3101 - 3 credits
POLS3106 - 3 credits
POLS3141 - 3 credits
POLS3143 - 3 credits
POLS3113 - 3 credits
POLS3114 - 3 credits
POLS3115 - 3 credits
POLS4110 - 6 credits

Certificate in Public Administration – Concentration in Aboriginal Affairs

Compulsory Courses
POLS1100 or 2102 - 6 credits
POLS2110 - 6 credits
POLS2112 - 6 credits
POLS2161 - 3 credits
POLS3801 - 3 credits

Elective Courses (9 credits)
POLS2104 - 3 credits
POLS3101 - 3 credits
POLS3106 - 3 credits
POLS3441 - 3 credits
POLS4110 - 6 credits
MIKM3110 - 6 credits

Course Substitution: with respect to all concentrations, students may substitute up to six elective credits from relevant and pertinent courses from other disciplines. See the co-ordinator of the certificate program for official approval of course substitutions

Certificate in Social Research

This program teaches research methods for studying human social behaviour, social organization and culture. Students will get training and practice in a broad range of social research skills, which are much in demand in today's work world. Two groups will find it especially useful. First, students can earn the certificate while studying for a CBU degree. (The program fits easily into a BA, BACS or BBA program with no need to take extra courses.) Second, people already in a career can upgrade their research skills or prepare themselves for a career transition by doing this certificate as a stand-alone program. Detailed information is available from the Department of Anthropology & Sociology, through the department chair.

The certificate is composed of 30 credits:

- 6 credits - AN/S1101 Intro to Anthropology & Sociology
- 6 credits - AN/S2210 Qualitative Research
- 6 credits - AN/S2212 Quantitative Research
- 6 credits - Elective(s) in AN/S, ANTH, &/or SOCO above 1000-level
- 6 credits Research course(s) from among: Methods of Applied Social Research (AN/S3230), or Directed Study (AN/S3800, AN/S3801/3803, AN/S4811/4813, AN/S4801), or AN/S Senior Thesis 4900 in AN/S or ANTH or SOCO.

Note: For this certificate, the Directed Study or Thesis must centre on original empirical research conducted by the student.

This certificate signals a recipient's special competence in social-science research. Thus, the following special grade standards will apply:

- Average grade of 65% or more across the whole set of 30 credits that the student offers in fulfilment of the certification requirements
- A minimum grade of 65% in each of AN/S2210, AN/S2212 and the advanced research-oriented course(s) listed in item five, above
- A minimum grade of 70% in at least one of the two core methods courses (2210 or 2212), or in the advanced research-oriented course(s) (item five, above).

SHANNON SCHOOL OF BUSINESS

JOHN MACKINNON, MBA, FCA - DEAN

Cape Breton University's Shannon School of Business offers flexible, innovative, business programming. The programs offered through the Shannon School of Business are:

- Master of Business Administration in Community Economic Development
- Bachelor of Business Administration
- Bachelor of Business Administration, Major in Accounting
- Bachelor of Hospitality and Tourism Management, Three year Internship
- Bachelor of Technology Information (Through partnership with CIC)
- Certificate in Management
- Certificate in Professional Development

In addition to degree programs, the Shannon School of Business offers courses which are recognized by a wide variety of professional societies and institutes.

The Shannon School of Business consists of two departments:

FINANCIAL AND INFORMATION MANAGEMENT
Martin Moy, Chair (Finance, Accounting, Information Technology, Management Science, Economics)

ORGANIZATIONAL MANAGEMENT
Wendy Wadden, Chair (Marketing, Management, Human Resources, Legal Studies, Hospitality and Tourism Management)

Master of Business Administration in Community Economic Development

Cape Breton University's Master of Business Administration (MBA) in Community Economic Development (CED) is an advanced program with community at its core; it resonates with people who wish to make a difference in their organizations and their communities. The MBA in CED curriculum, in addition to business subjects found in traditional MBA programs, focuses on economic development, leadership, strategy, governance, managing change and international management.

This program is designed for learners who aspire to play leadership roles in the public sector, in third sector organizations and in community-minded businesses. The MBA in CED aims to develop a new generation of leaders who have strong business management capabilities, well developed collaborative and interpersonal skills and deep knowledge of accountability, social responsibility and development issues and practices. Graduates are equipped with the knowledge and skills to make a difference in leading organizations in an increasingly global community and economy.

CBU's size and governance structure allows for the adaption of curriculum in a timely fashion to meet the evolving requirements of learners and organizations. The special appeal of the MBA in CED is evidenced by the demand for this program in different parts of Canada.

Admission Requirements

To meet standard admission requirements for the MBA in CED, a Bachelor's Degree from a recognized university is required. The application cannot be processed until all of the following documents and fees have been received:

- a completed application form, with the non-refundable application fee
- official transcripts for all previous post-secondary study
- a resume detailing employment experience, skills, community involvement and interests
- a 500-800 word statement on desire to enter the program

- three references, preferably including one professional and one academic reference, each accompanied by a completed referee form
- satisfactory scores on the GMAT
- satisfactory scores on the TOEFL/IELTS (for students whose native language is not English)
- satisfactory performance in an interview

Candidates who do not have an undergraduate degree, and show potential for success in graduate level study, may be admitted to the MBA in CED as non-traditional students. Outstanding career and/or volunteer experience are expected. The candidates will be assessed individually in such areas as experience and performance in a number of education/training courses. Applicants must provide:

- a completed application form, with the non-refundable application fee
- proof of extensive experience in managerial/decision-making positions
- official copy of a high school diploma or equivalent academic credential
- official transcripts of completed academic work
- a 4-6 page essay outlining desire to enter the program, community involvement, and what can be offered to other students in the classroom
- a resume detailing employment experience, skills, community involvement, and interests
- three references, preferably including one professional and one academic reference, each accompanied by a completed referee form
- satisfactory scores on the GMAT
- satisfactory scores on the TOEFL/IELTS (for students whose native language is not English)
- satisfactory performance in an interview

Reference letters must be originals, sent directly by the referees. Only official transcripts sent by the Registrar of the issuing institution will be accepted. The Educational Testing Service must forward GMAT and TOEFL/IELTS score reports. Photocopies of any of these documents will not be accepted.

SEMESTER FORMAT DELIVERY

The semester format delivery follows the September – April academic year.

Deadline for application is May 31, for a September start.

MODULAR FORMAT DELIVERY

The modular format appeals to working adults. It includes short, on-site residencies followed by deliverables paced over a 12 week period. This residential program enables out-of-province learners to take four to five classes each July and thus complete all program coursework over three summers (26 months).

Deadline for application is March 31, for a July start.

Note: Students can combine the semester format and modular format delivery to complete the program in 12 months.

WEEKEND FORMAT DELIVERY (OFF CAMPUS)

Learners can opt to complete the program in 22 months by attending classes on alternate weekends in specified cities across Canada.

Please contact mba@cbu.ca regarding application deadlines and venue.

SCHEDULES, TUITION AND FEES

Program schedules, tuition and fees for off-campus delivery will differ from the program offered on-site at Cape Breton University. For more information about the Master of Business Administration in Community Economic Development program, please contact the director at mba@cbu.ca, or (902) 563-1467.

SHANNON SCHOOL OF BUSINESS

COURSES REQUIRED TO COMPLETE THE DEGREE

Students must complete the required courses and earn 48 credits. Students will be required to maintain a 70% average to remain in the program.

The MBA in CED program includes three terms of five courses each and a research essay/case study.

Term One

MBAC5101 Business and Community Development I
MBAC5103 Principles of Accounting
MBAC5104 Principles of Marketing
MBAC5105 Organizational Behaviour
MBAC5107 Economic Geography

Term Two

MBAC6101 Business and Community Development II
MBAC6103 Principles of Finance
MBAC6107 Comparative Development
MBAC6124 International Business
MBAC Elective

Term Three

MBAC6121 Applied Research Methods
MBAC6106 Leadership
MBAC6118 Venture Analysis
MBAC6125 Strategic Management
MBAC Elective

MBAC Research Essay/Case Study: The research essay/case study will approach a problem in business or community economic development in a holistic, multidisciplinary manner and will meet the highest academic standards. Students will ground their research in an existing or planned community development initiative. A two-person supervisory committee, drawn from different disciplines, will oversee the preparation of this essay. There is no residency requirement for the research essay, which may be completed off site. The research essay/case study must be completed within a calendar year.

ADVANCED STANDING

Requests from applicants to receive transfer credits for courses will be reviewed individually. Transcripts of courses, along with a detailed description of course content will be required.

Students can make a request to challenge course(s) and each request will be reviewed on its own merits.

Applicants can apply for advanced standing on the basis of career or life learning and each request is subject to a Prior Learning Assessment (PLA) review.

Options in the Program

Students pursuing an MBA in CED can specialize by taking their two elective courses within a designated option. The research essay/case study would build on courses within the option.

FIRST NATIONS OPTION

The First Nations option is a natural outgrowth of Cape Breton University's already extensive Mi'kmaq Studies program.

MBAC6209 Land Claims, Self-government and Community Economic Development
MBAC6211 The Dynamics of CED in Urban and Rural First Nations

INTERNATIONAL BUSINESS OPTION

MBAC6226 International Finance
MBAC6228 International Marketing

PEACE-BUILDING, RECONSTRUCTION AND GOOD GOVERNANCE OPTION

This option was designed for military personnel and civilians in collaboration with the Canadian Defence Academy, Department of National Defence.

MBAC6215 Emergency Management
MBAC6217 Conflict Resolution and Community Reconstruction

STRATEGIC LEADERSHIP OPTION

The Strategic Leadership option was initially offered in Alberta and consists of two courses:

MBAC6219 The Social Dynamics of Leadership
MBAC6233 Change Management and Governance

MBA PREPARATION

PRE-MBA PROGRAM

CBU's Pre-MBA program is designed to prepare international students, who have intermediate English language skills, to study for the MBA in CED. Many students have not experienced Canadian university education and they are not familiar with the professional, academic and cultural expectations of an MBA program. The Pre-MBA is a full-time, eight week program offered in July and August and includes language learning, business English, GMAT preparation, Canadian business environment, reading techniques, business report writing, research skills, case study analysis and presentation skills. Students will also complete a major group project that includes a written report with a recommendation and an oral presentation .

Students cannot apply directly to the Pre-MBA program but must make application to the MBA in CED program. The selection committee, based on documents received, will determine the need for the Pre-MBA program. The Pre-MBA program is taken in conjunction with intro courses within the MBA in CED program and is an added cost.

For additional information please contact mba@cbu.ca.

PRE-CORE PROGRAM

Cape Breton University's pre-core program is a series of no-fee sessions in Accounting, Finance, Statistics, Excel modeling and case analysis techniques. Individuals who have not recently completed a business degree in Canada are expected to enroll into the pre-core program.

The pre-core program takes place the week before classes start in September and January and in the weekend preceding July's classes.

For more information please contact mba@cbu.ca.

PARTNERSHIPS

At the national level, Cape Breton University has signed a memorandum of understanding with NAIT, Alberta, to offer the MBA in CED in Alberta. At the international level, Cape Breton University has signed a joint agreement with Jilin University - Lambton College, China.

Cape Breton University has partnerships with certain colleges that offer pertinent pre-Master's programs and prepare international students to apply for admission to the MBA in CED, such as Dorset College in BC, Cambridge Institute of Science &Technology (CIST) and Kennedy College in Ontario.

SHANNON SCHOOL OF BUSINESS

Program schedules and tuition fees for the national and international market will differ from the program offered on-site at Cape Breton University. For more information about the Master of Business Administration in Community Economic Development program, please contact the director at mba@cbu.ca , or (902) 563-1467.

Bachelor of Business Administration (BBA)

Admission Requirements

Required: Five Grade 12 advanced or academic courses including English and Mathematics or Pre-calculus Mathematics, with an overall average of at least 60%. Students may substitute one open course for one advanced or academic course, except where a particular course is specified.

The Bachelor of Business Administration degree is a four-year program (when completed on a full-time basis), in which students may pursue a concentration within different disciplines. The BBA degree program consists of a combination of core courses (66 credits) and elective courses (54 credits).

The BBA program allows students to develop an innovative program, which includes the core curriculum and elective courses and, if they choose, a business concentration. The degree may be completed through full-time or part-time study. A co-operative education internship program is also available which is an opportunity to earn income and gain relevant work experience while completing the BBA degree requirements.

The Bachelor of Business Administration program is intended to prepare successful candidates for self-employment and careers in private and public enterprise, cooperatives, government service and for graduate study. One of the primary objectives of the BBA program is to provide a foundation in both business and the traditional liberal arts area.

BBA PROGRAM

Students are required to complete 120 credits. This would include 66 required credits and 54 elective credits with a minimum 24 credits in non-business courses as follows:

Year One

MGMT1601	Intro to Canadian Business
MRKT1301	Intro to Marketing
ACCT1203/1204	Intro to Accounting I and II
MGSC1108/1109	Intro to Statistic/ Calculus for Business
ECON1101/1103	Principles of Micro/Macro Economics
English	(3 credits)
Communication	(3 credits)

Year Two

MGSC2101/2103	Computers in Business/Quant. Methods
MGMT2604/2605	Organizational Behaviour/ Human Resource Management
FINC2401/2403	Business Finance I and II
Electives	(12 credits)

Year Three

MRKT3301	Marketing Management
MGMT3603	Management of Small Business
ACCT3208	Planning and Control
MGMT3607	International Business Management
MGSC3101	Information Management Systems
Electives	(15 credits)

Year Four

MGMT4605	Business Competitive Strategies

Electives (27 credits)

See the course description section of this Calendar for more information. A degree worksheet is available from the Dean's office.

Bachelor of Business Administration Major in Accounting

The BBA Major in Accounting program requires the completion of the BBA core curriculum. Students are required to complete ACCT3206 and ACCT3207 plus 18 credits of accounting electives. In addition, at least six credits must be at the 4000 level.

Admission Requirements: Students who have completed year one or year two of the BBA degree program may apply for admission to the BBA Major in Accounting. Students must be in good academic standing with a minimum 60% average.

Program and Course Requirements:

1. ACCT3206 and 3207
2. 18 credits from ACCT2203, LEGL2501, ACCT4201, ACCT4205, ACCT4206, ACCT4207, ACCT4208, ACCT4209.
3. An average of 65% must be maintained in years three and four of the program.
4. Minimum of 60% must be maintained on all accounting courses required for the accounting major.
5. Minimum of 6 credits at the 4000 level.

Bachelor of Business Administration Major in Marketing

The BBA Major in Marketing program requires the completion of the BBA core curriculum. Students are required to complete MRKT 2301, MRKT 4300 and MRKT 4308– Marketing Strategy plus 12 credits of marketing electives. In addition, at least 12 credits must be at the 4000 level.

Admission Requirements: Students who have completed year one or year two of the BBA degree program may apply for admission to the BBA Major in Marketing. Students must be in good academic standing with a minimum 60% average.

Program and Course Requirements:
1. MRKT 2301, MRKT 4300 and MRKT 4308
2. 12 credits from MRKT 2303, MRKT 3304, MRKT 3307, MRKT 3124, MRKT 3309, MRKT 4605, MRKT 4311, MRKT 4309, MRKT 4304, MRKT 4305, MRKT 4306, MRKT 4314, MRKT 4307, MRKT 4313, HATM 3508
3. An average of 65% must be maintained in years three and four of the program.
4. Minimum of 60% must be maintained on all marketing courses required for the marketing major.
5. Minimum of 12 credits at the 4000 level.

BUSINESS CONCENTRATIONS

The open elective concept provides sufficient flexibility for students to obtain a concentration in the business disciplines. This concept can be used to obtain concentrations by choosing business or other electives from the specific areas in addition to the required BBA core courses.

Economics (18 credits):
Required Courses: ECON 2105, 2101 & 2103
Plus 9 credits from ECON 3101, 3105, 3107, 3108, 4101, 4103, 4107, FINC 4401, FINC 4408

Finance (18 credits):
Required Courses: FINC 3403 & 3401
Plus 12 credits from: FINC 2405, 3404, 4401, 4404, 4403, 4406, 4408, ECON 3101, 3103, 3105

SHANNON SCHOOL OF BUSINESS

Information Technology (18 credits): *ITEC Courses are not offered on campus at CBU

6 credits from MATH 1116, ITEC 1501, MATH 1217, ITEC 2503, ITEC 3503, ITEC 3507, ITEC 4505
Plus 12 credits from ITEC 1503, 1505, 1506, 2503, 2504, 2505, 3505, 3506, 3508, 4503, 4504, 4506, 4507, 4508, 4509 or 4513.

Legal Studies (18 credits):
Required Courses: LEGL 2501, 2503, 3501, 3505 & 3503
Plus 3 credits from: LEGL 4501, 4503, PUBH 2103, 3103,4105, ENVI 2163, POLS 2104, 3134

Human Resources (18 credits):
Required Courses: 3605 & 3604
Plus 12 credits from: MGMT 2603, 3606, 3601, 4603, 4604, 4609, LEGL 3503, LEGL 3504.

Tourism Marketing and Management (27 credits):
Marketing Management Component (total of 9 credits):
MRKT 2301 & MGMT 3604 - Plus 3 credits from MRKT 2303 or 4307
Tourism Component (total of 9 credits):
MRKT 3309 & MGMT 4606 - Plus MRKT 3124 or HATM 1506
Hospitality Component (total of 9 credits):
HATM 3505, 1501 & 1503

BBA Business Education Internship Program

The Business Co-operative Education Internship Program is a University program that gives students the opportunity to enrich their education by alternating periods of classroom study with up to three periods of off-campus work experience. Each work experience period is four months in duration and involves the student in supervised, paid, full-time work, related to his/her area of study. The combination of theory and practice during the academic year makes education more meaningful and provides students with the opportunity to acquire those skills necessary for a satisfactory adjustment to the world of work.

Practicum Evaluation - Pass/Fail/Withdrew
Performance Evaluation - Poor/Good/V.G./Excellent

Practicums will be recorded as BUSS1999, BUSS2999, and BUSS3999 respectively.

Bachelor of Arts Community Studies/Bachelor of Business Administration

CBU offers students an opportunity to obtain both their BACS and BBA degrees in four years. At the end of three successful years, students will receive a Bachelor of Arts Community Studies degree with a career concentration in Business. After the fourth successful year, they will receive a Bachelor of Business Administration.

Bachelor of Hospitality and Tourism Management

(The BHTM program is currently under review. Please consult the official HTML version of the academic calendar for the most recent program information.)

Paid work internship program.

Admission Requirements

Required: Five Grade 12 advanced or academic courses including English and Mathematics with a minimum average requirement of 60%.

SHANNON SCHOOL OF BUSINESS

Students may substitute one open course for one advanced or academic course, except where a particular course is specified. The Bachelor of Hospitality and Tourism Management program is a three-year general degree offered through the Shannon School of Business that encompasses courses spread over the Hospitality, Tourism, Business/Management, Humanities, Social Science and English academic disciplines.

The program includes two compulsory, six-month paid industry internships, which occur between May and October in the first and second years of study. Internships must meet suitable industry internship criteria. An internship coordinator (faculty member) will arrange recruitment presentations and provide students with the opportunity to be interviewed on campus by national, provincial and regional establishments for internship placement. Students are also encouraged to seek internship opportunities on their own. All internship placements are subject to approval by the internship coordinator.

BACHELOR OF HOSPITALITY AND TOURISM MANAGEMENT (BHTM) – PROGRAM REVISED NOVEMBER 2010

Year One: Fall Term (September- December)

HATM1501	Introduction to Food Theory and Nutrition
HATM1504	Tourism in Canada
ACCT1203	Intro to Accounting I
Non-Discipline Elective	(3 credits)
English	(3 credits)

Winter Term (January-April)

HATM1503	Restaurant Operation and Service
HATM1506	Intro to Tourism Marketing
ACCT1204	Intro to Accounting II
Communication	(3 credits)
Non-Discipline Elective	(3 credits)

Spring/Summer

Hospitality and Tourism Internship I

Year Two: Fall Term (September-December)

HATM3505	Tourism Law
HATM3504	Resort/Facilities Management and Maintenance
MGMT2604	Intro to Organizational Behaviour
MATH1215	Descriptive and Basic Inferential Statistics
Non-Discipline Elective	(3 credits)
HATM2999	Industry Internship I (Completed in spring/summer)

Winter Term (January-April)

HATM3503	Meetings and Convention Management
MGMT2605	Human Resource Management
MGMT3607	International Business
ECON1101	Principles of Microeconomics
Non-Discipline Elective	(3 credits)

Spring/Summer

Hospitality/Tourism Internship II

Year Three: Fall Term (September- December)

HATM3125	Tourism Operations Planning
HATM3509	International Tourism Management
MGMT4606	Tourism Management I
Open Elective	(3 credits)

Non-Discipline Elective	(3 credits)
HATM3999	Advanced Industry Internship II (completed in spring/summer)

Winter Term (January-April)

MGMT4607	Tourism Strategy
HATM3508	Destination Management and Marketing
Open Elective	(3 credits)
Open Elective	(3 credits)
Non-Discipline Elective	(3credits)

Bachelor of Technology Information

The BTI degree program is now offered only in Egypt through CBU's partnership with Canadian International College (CIC).

Admission Requirements

Required: Five Grade 12 advanced or academic courses including English and Mathematics or Pre-calculus Mathematics, with an overall average of at least 60%.

The Bachelor of Technology Information (BTI) degree is a four-year, co-operative education program consisting of 40 three credit courses (120 credits) and three optional work placements.

The BTI degree equips its graduates with the essential information technology (IT) skills necessary for them to be both adaptable and innovative in the dynamic business world of IT. Courses are taught in both classroom and computer laboratory environments and are continually updated to reflect current business and industry standards. The BTI degree prepares graduates for careers as systems analysts, project leaders, programmers, consultants, network administrators and application support personnel.

The following course template represents the standard pattern through the degree program. The year one through year three course requirements listed below are common to both the BTI (Information Management) and BTI (Network Management) concentrations.

Year One

ITEC1501	Introduction to Programming
ITEC1503	Introduction to Operating Systems
ITEC1504	Information Systems
ITEC1505	PC Hardware Fundamentals
ITEC1506	Introduction to Network Management
ITEC1507	Internet Fundamentals
MGSC1101	Mathematics for Business
MGMT1601	Introduction to Canadian Business
English	3 credits
Discipline Elective	

Year Two

ITEC2501	Systems Analysis & Design
ITEC2503	Advanced Programming
ITEC2504	Advanced Network Management
ITEC2505	Data Base Development
ACCT1203	Introduction to Accounting I
MGSC1108	Introduction to Statistics

MGMT2604	Organizational Behaviour I
ACCT1204	Introduction to Accounting II
Discipline Elective	
Discipline Elective	

Year Three

ITEC3503	Visual Basic
ITEC3504	Systems Security and Control
ITEC3505	Mid-Range Operating Systems
ITEC3506	Information Technology Project Management
ITEC3507	Object Oriented Programming
ITEC3508	Windows Server Technologies
ITEC3511	Business Strategies in IT
Communication	3 credits
Discipline Elective	
Discipline Elective	

BTI (INFORMATION MANAGEMENT)

In addition to the year one through year three requirements listed above, students in the BTI (Information Management) also require the following courses to complete the degree:

ITEC4515	Information Technology Documentation
ITEC4505	E-Commerce Technologies
ITEC4509	Current Issues in Information Technology
ITEC4511	Systems Implementation Project
ITEC4506	Data Warehousing
ITEC4507	Software Engineering Tools
MGMT3603	Management for Small Business (or close cognate)
MGSC3101	Management Information Systems
Discipline Elective	
Discipline Elective	

BTI (NETWORK MANAGEMENT)

In addition to the year one through year three requirements listed above, students in the BTI (Network Management) also require the following courses to complete the degree:

ITEC4515	Information Technology Documentation
ITEC4505	E-Commerce Technologies
ITEC4509	Current Issues in Information Technology
ITEC4511	Systems Implementation Project
ITEC4503	Internet Administration
ITEC4504	Advanced TCP/IP
ITEC4513	Server Technologies
ITEC4508	WAN Technologies
Discipline Elective	
Discipline Elective	

Refer to ITEC course descriptions in this calendar for additional information on individual courses. Further information on either the Information Management concentration or the Network Management concentration is available from the department chair.

Program Notes

1. Discipline electives are defined as additional non-compulsory ITEC, business foundation (BUSS), business or information technology related, or chair approved courses.
2. BTI students are eligible to complete a maximum of three work placements. Students must pass all required ITEC courses in the academic year preceding their placement and maintain a 70% average to be eligible to apply for work placements. Contact the career advisors for additional details.
3. Students seeking credit from previous post-secondary studies must apply for a Transfer Credit Assessment by submitting a Transfer Credit Assessment application (available at the Student Service Centre or online at **www.cbu.ca/applications** along with the assessment fee and official transcripts from institutions from which they are seeking transfer credit. Refer to CBU admission procedures for additional details.

Bachelor of Business Administration - Transfer upon Graduation from Business Technology

Graduates from Business Technology are eligible to receive credit for a minimum of 10, six credit courses toward the completion of the BBA degree. For details contact the office of the Dean, Shannon School of Business.

For further information on transfer programs: Contact the Dean, or the Associate Dean, Shannon School of Business by calling (902) 563-1161.

Certificate & Designation Programs

Certificate in Management & Administration/Certified in Management (CIM) Professional Designation

CANADIAN INSTITUTE OF MANAGEMENT

Students will be awarded a Certificate in Management and Administration, by the Canadian Institute of Management upon completion of eight (24 credits) courses as specified by the Institute, with a minimum grade of 60% in each course. Candidates will be eligible to apply for Certified in Management (CIM) professional designation once they have acquired two years of management/administration experience. In order to be granted the designation, candidates are required to submit an application, along with two letters of reference and a current resume within six years of completing the prescribed studies.

The following are Cape Breton University equivalencies as approved by the Canadian Institute of Management:

CBU Equivalencies	
Introduction to Management	**MGMT1101** Introduction to Canadian Business
Managerial Communications	**COMM1105** Introduction to Public Speaking
Canadian Business Law	**LEGL2501** Business Law I
Managerial Accounting	**ACCT1203** Introduction to Accounting I **ACCT1204** Introduction to Accounting II **ACCT3208** Planning & Control
Managerial Finance	**FINC2401** Business Finance I
Strategic Policy Analysis	**MGMT4605** Business Competitive Strategies
Option Courses (two courses required)	**MRKT1301** Introduction to Marketing **MGMT2604** Organizational Behaviour I **MGSC3101** Information Systems for Management **ECON1101** Principles of Microeconomics **ECON1103** Principles of Macroeconomics

ADMISSION REQUIREMENTS

The normal rules and regulations for regular, part-time and mature students entering Cape Breton University credit courses will apply.

SHANNON SCHOOL OF BUSINESS

ADDITIONAL FEES

Regular Cape Breton University tuition and fees apply to all courses. A yearly membership fee, in addition to Cape Breton University tuition and fees, is required by the Canadian Institute of Management.

For further information

Contact Wendy Wadden **(902) 563-1229** or e-mail: **wendy_wadden@cbu.ca**

Professional Development Certificate Program

This program is designed to meet the needs of both public and private sector employees and those who want to both develop and enhance work-related skills, as well as to participate in an accredited professional development opportunity. Courses are multi-disciplinary to reflect the nature of skills needed to perform successfully on the job. This program would be of interest to individuals who are currently employed and who wish to further their education and employers interested in providing professional development. The program has significant value compared to traditional training programs as, should an individual desire, certificate credits can be applied toward a relevant university degree.

The program can be offered as a closed certificate for a defined learning group or learners can participate as part of a regular stream class. Some courses may be available through distance education.

Core Courses

MGMT2604	Organizational Behaviour
COMM1105	Introduction to Public Communication
MGMT3601	Administrative Problem Solving
Elective	One three credit elective course from one of the approved disciplines such as Political Science, Communication, French or Business Administration.

Independent Study

The independent study provides an opportunity for students to investigate an area of personal or professional interest using the skills and background acquired through the courses of the program. This topic will be determined in consultation with the program director.

Business Certificate and Professional Programs

There are numerous independent professional organizations offering their own programs of study leading to diplomas or certificates. Some Shannon School of Business courses offered by Cape Breton University are accepted as equivalents of courses within these external programs. For the descriptions which follow, equivalencies are available at the Shannon School of Business. There are a number of certificate and professional programs offered. These include:

INSTITUTE OF CANADIAN BANKERS FELLOWS PROGRAM (ICB)

Applicants are advised to read the Institute's publication for information and/or contact the Registrar's Office of the Institute or their bank's ICB coordinator.

Module I - Two Compulsory Courses

ICB Title	CBU Equivalent
Career Foundation Skills	N/A
Employable Skills	N/A

Module II - Six Compulsory Courses

Organizational Behaviour	MGMT2604
Fundamentals of Accounting	ACCT1203/1204
Marketing	MRKT1301
Economics	ECON1101/1103
Business Finance	FINC2401/2403

Integration Course	N/A

Note: The Integration course must be taken last. Completion of Module I leads to the Letter of Accomplishment and completion of Module I and Module II leads to the Associate of the Institute of Canadian Bankers (AICB).

The Credit Union Institute of Canada

In affiliation with Cape Breton University, the Credit Union Institute of Canada currently offers two programs of study, each leading to a professional designation.

Certified General Accountants Association (CGA)

The Certified Accountants Association of Canada, Atlantic Region, is an association of professional accountants. All members have met the Association's requirements of professional competency, are bound to a uniform standard of conduct and are entitled to the designation, CGA. In co-operation with Cape Breton University, there are exemptions leading to the CGA designation.

Atlantic School of Chartered Accountancy (ASCA)

The Institutes of Chartered Accountants of New Brunswick, Nova Scotia, Prince Edward Island and Newfoundland are participants of the Atlantic School of Chartered Accountancy (ASCA). The primary objective is to provide a prequalification study program for students wishing to enter the profession.

Prospective CAs must first obtain an undergraduate degree and employment with a CA firm, to be admitted as students in the ASCA program. Students will then undertake a number of prescribed modules of study and must pass evaluations in each course. After completion of these module courses they are then required to sit the uniform evaluations (UFE) in order to receive the designation of CA.

The Insurance Institute of Canada (FIIC)

The Insurance Institute of Canada Fellowship Program is designed for candidates who have already completed their Association (AIIC), although concurrent enrolment is permissible in some circumstances.

Specific details on these programs are available upon request. For more information on certificate programs, please contact the dean's office at (902)563-1161.

SCHOOL OF PROFESSIONAL STUDIES

ROBERT BAILEY, PHD –DEAN

Established to provide institutional and community leadership in education and research relevant to the disciplines delineated by its name, the School of Professional Studies offers a variety of degree, diploma and certificate programs.

Degree, Diploma and Certificate Programs

GRADUATE DEGREE
Master of Education (Information Technology) conferred by Memorial University of Newfoundland

PROFESSIONAL DEGREE
Bachelor of Education

UNDERGRADUATE DEGREE
Bachelor of Science Nursing
Bachelor of Health Sciences (Public Health)
Bachelor of Science in Human Nutrition (Transfer)

GRADUATE DIPLOMAS
Diploma in Education (Counseling)
Diploma in Education (Curriculum)
Diploma in Educational Technology

GRADUATE CERTIFICATES
Certificate in Educational Studies (Arts Education)
Certificate in Educational Studies (Sabbatical Offering)

CBU recognizes potential for program growth in health-related disciplines such as Nutrition, Public Health and Nursing as well as in a broad range of teacher education (both pre- and post-certification) programs. Further, the institution recognizes the strong opportunities for employability of its graduates in these related fields. CBU believes it is part of our regional responsibility to provide access for our students to professional credentials such as Teaching, Nursing and Public Health and that the benefit of such access extends well beyond our students and the institution; it is a critical component of regional sustainability.

The School is comprised of three academic departments and one non-credit community wellness area. It also has numerous formal partnerships with outside agencies.

Health Studies: The Department of Health Studies houses faculty delivering the Bachelor of Health Sciences (Public Health) and Nutrition programs. With both a four-year degree option and a two-year post-degree option, the BHS (Public Health) makes CBU one of five institutions in Canada that prepares its students to sit for the examination for the Canadian Institute of Public Health Inspectors. Nutrition students may choose to do the first two years of a BSc (Nutrition) before transferring to another post-secondary institution.

CBU participates in the Canadian Consortium of Environmental Public Health Educators (CCEPHE). The Consortium is composed of fivemember institutions offering on-line courses to practicing public health professionals. Public Health graduates interested in continuing their education can contact the Consortium at **www.ccephe.ca.**

Education: CBU's Department of Education delivers both pre- and post-certification programs for teachers. These include a Bachelor of Education (elementary and intermediate/secondary); a Master's degree in Education (Information Technology) offered in conjunction with Memorial University of Newfoundland; Graduate Diplomas in Education in Counseling, Curriculum and Educational Technology; the Certificate in Educational Studies; and the Certificate in

Educational Studies (Arts Education). The department offers the International Graduate Diploma in Education to teachers in Egypt. With a strong expertise and interest in online education, the department offers many of the teacher education programs entirely online. The department also maintains a formal linkage with school boards, the Department of Education, First Nations communities and other community stakeholders. An Educational Advisory Council plays an integral role in ensuring that education programming offered by CBU is relevant and appropriate to meet the changing needs of the K-12 system in the province.

Nursing: Nursing is a unique health profession which involves the practice of professional caring. Nursing traditions have always provided leadership in addressing challenging health care issues related to health promotion, maintenance and restoration, illness prevention and palliative care. Cape Breton University's Bachelor of Science in Nursing program provides competence in all aspects of nursing. This includes the development of expertise in professional skills, as well as fostering critical thinking, problem solving and decision making. A BScN with an advanced major, is an option for students who want to pursue a concentration in one area. The curriculum is designed to provide learning experiences that promote student development and the acquisition of knowledge and skills necessary for a career in the nursing and health care profession. The body of knowledge in the program is rooted in nursing theory and nursing research, as well as the biological sciences, social sciences and humanities. Students in this program develop the skills and ability to assist individuals, families, groups, communities and populations to consider, develop and follow wellness plans to optimize their level of functioning. Our BScN Program is one of excellence, respect, openness to students and very high standards.

Through a formal Memorandum of Understanding, CBU has partnered with the Cape Breton District Health Authority to advance health and wellness initiatives of mutual interest. One such initiative includes the recently launched Cape Breton Centre for Health Research, established to provide infrastructure for the advancement of health research activities in the area. Part of CBU's commitment to this project is the provision of space for office and staff.

The School of Professional Studies also assumes the lead role for CBU in building and maintaining community linkages focused on creating a healthier Cape Breton. In addition to its own proactive Campus and Community Wellness strategy, the School partners with the District on the fitness component of its Cardiac Wellness program and plays a role in such initiatives as the Committee for Active Transportation in the area.The School is also home to the Cape Breton University Seniors College.

Partnerships

Cape Breton Health Research Centre

The Cape Breton Health Research Centre was launched in 2006. It is a partnership between CBU and the Cape Breton District Health Authority. The Centre supports the growth and sustainability of health research between the two organizations by providing infrastructure to academic, professional and student health researchers. The Centre provides expertise in research planning and proposal development, explores funding opportunities and promotes research opportunities in the community. The Centre sponsors workshops and educational opportunities for health researchers.

For more information, contact Benita Manzine, Administrative Assistant (902) 563-1833; benita_manzine@cbu.ca

Education Advisory Council

For over 30 years, CBU has been active in the provision of professional development services to teachers through credit and non-credit courses and workshops. A co-operative model involving the University, school boards, teachers and the public has always guided the institution's work. CBU offers a series of graduate programs including a degree, diplomas, and certificates for teachers and school administrators. All programs have been approved by the Nova Scotia Department of Education for teacher license reclassification.

Individual courses from CBU's graduate diploma and certificate offerings may be taken with permission. A non-refundable application fee of $50.00 is required with each application for education diploma and certificate programs. Department of Education contacts:

SCHOOL OF PROFESSIONAL STUDIES

- Catherine O'Brien, Chair, Education Department **(**902) 563-1849; catherine_obrien@cbu.ca
- Terry MacDonald, Manager & Technology Enhanced Learning, Teacher Education (902) 563-1647; terry_macdonald@cbu.ca
- Susan Basso, BEd, Manager & Practicum Coordinator, BEd (902) 563-1651; susan_basso@cbu.ca

Master of Education (Information Technology)

This program was designed to facilitate the educational use of information technology in a wide variety of settings. The program will be of interest to educators at all levels, including K-12 teachers, school administrators, those in the post-secondary system, business and industry, as well as those in most other adult learning situations. While the co-operatively-offered degree may be awarded at convocation at either CBU or MUN, the degree is conferred by MUN.

Admission Requirements

In addition to meeting the requirements in the general degree regulations, Faculty of Education, MUN, candidates must have successfully completed one of: a diploma or certificate in information technology from an accredited institution; CBU EDUC530; MUNE2751 and E3751; or equivalent, as determined by the program steering committee.

PROGRAM REQUIREMENTS

1) All candidates for the Master of Education (Information Technology) must complete E6100 Research Designs and Methods in Education (3 credits).

2) Candidates on the thesis route must complete three credits from:

MUN E - 6610	Research on Computers in the Curriculum (3 credits)
MUN E - 6615	Educational Software Prototyping and Evaluation (3 credits)
MUN E - 6620	Issues and Trends in Educational Computing (3 credits)

Nine credits selected from the core elective CBU courses approved for this program:

CBU EDUC5101	Assessment of Software and Information Technology Applications for Education (3 credits)
CBU EDUC5103	Integration of Instruction Design and Information Technology (3 credits)
CBU EDUC5104	Applications of Learning Theory in Educational Multimedia Design (3 credits)
CBU EDUC5105	Designing Web-based Learning (3 credits)
CBU EDUC5106	Technology Planning for Education Environments (3 credits)
CBU EDUC5107	Information Management for Education Environments (3 credits)

Three credits from E6426, E6802, E6822, E6823 or from other MUN, Faculty of Education graduate course offerings as deemed appropriate for each candidate's program and approved by the program steering committee.

3) Candidates on the comprehensive course route must complete:
- 6 credits selected from E6610, E6615, E6620 listed in (ii) above;
- 12 credits selected from CBU EDUC5101, EDUC5103, EDUC5104, EDUC5105, EDUC5106, EDUC5107, listed in (2) above
- E6590 Research and Development Seminar in Information Technology in Education (3 credits);
- 3 credits from E6426, E6802, E6822, E6823 or from other MUN, Faculty of Education graduate course offerings as deemed appropriate for each candidate's program and approved by the program steering committee;
- Additional credits appropriate to a candidate's program and approved by the program steering committee, to be chosen from graduate course offerings at MUN, CBU, or any other university to complete the required 30 credits for the comprehensive course route.

4) Normally, candidates will be permitted to register for E6590 only after all other course requirements have been met.

5) Candidates who have successfully completed the CBU graduate-level Certificate in Education (Technology) will be given advanced standing credit for the nine CBU EDUC course credit requirements for the thesis route or 12 CBU EDUC course credit requirements for the comprehensive course route in this program.

6) Candidates who have successfully completed the former CBU EDUC 534 and/or EDUC 543 with at least a CBU grade of B (70%) toward the CBU graduate-level Certificate in Education (Technology) prior to September 2000, will receive up to 12 advanced standing credits appropriate to their degree option (EDUC 534 will be considered equivalent to EDUC5101 and 5103 and EDUC543 equivalent to EDUC5104 and 5105).

7) Thesis route candidates will be subject to regulation J of the School of Graduate Studies, MUN, supervised by a faculty member at MUN and where feasible, co-supervised by a CBU faculty member.

Bachelor of Education

Cape Breton University offers the Bachelor of Education (Elementary and Intermediate/Secondary Education). Upon successful completion of this degree, students will be eligible to apply for teaching certification in Nova Scotia. This 60-credit degree is 16-months in duration (including the teaching internship). Classes commence each spring.

Admission Requirements

INTERMEDIATE/SECONDARY EDUCATION PREREQUISITES

- A concentration of at least 30 credit hours of university coursework in a discipline, taught in Nova Scotia secondary schools as outlined in the Public School Program; a maximum of six credit hours of cognate university coursework may be included in fulfilment of this requirement;
- A concentration of at least 18 credit hours of university coursework in a second discipline, taught in Nova Scotia secondary schools as outlined in the Public School Program; a maximum of six credit hours of cognate university coursework may be included in fulfilment of this requirement;
- Six credit hours in university social studies coursework from any one or combination of the following disciplines - Canadian Studies, History, Geography, Political Science, Sociology, Anthropology, Economics, Law, Classics, African Canadian Studies, Mi'kmaw Studies and/or Philosophy;
- Three credit hours of university coursework from among Mathematics, Science (excluding Psychology), or Computer Studies
- Three credit hours of university coursework in English, if undergraduate degree is delivered in English or three credit hours of university coursework in French, if undergraduate degree is delivered in French;

INTERMEDIATE/SECONDARY TEACHABLES

English, Math, French, Fine Arts, Technology, Science (Biology, Chemistry, Physics, Geology/Earth Sciences, Oceanography or Environmental Studies) and Social Studies (History, Geography, Political Science, Anthropology*, Sociology, Economics, African Canadian Studies, Mi'kmaq Studies, Law and Classics). Applicants to the Bachelor of Education (Intermediate/Secondary) cannot be accepted to this program if the first and second teachable disciplines are both social studies related disciplines.

* can be used as a second teachable discipline only

ELEMENTARY EDUCATION PREREQUISITES

Candidates for the Bachelor of Education (Elementary) must have successfully completed the following:

- 9 credits in social studies (from among History, Geography, Political Science, Anthropology, Sociology, Economics, African Canadian Studies, Mi'kmaq Studies and/or Philosophy)
- 6 credits in science (from among Biology, Chemistry, Physics, Geology/Earth Sciences, Oceanography or Environmental Studies)
- 3 credits in Mathematics
- 6 credits in English

- 6 credits in Developmental Psychology

All students are required to have an undergraduate degree from a recognized university, with a minimum of 90 credit hours completed.

Students in good academic standing, who have achieved an average of at least 65% throughout their undergraduate degree and an average of at least 70% in the last 60 credits attempted, are eligible for admission to the program.

Program Requirements

B.ED CORE COURSES (REQUIRED FOR BOTH ELEMENTARY AND INTERMEDIATE/SECONDARY)

EDUC4101	Sociology of Education (3 credits)
EDUC4103	Inclusive Education (3 credits)
EDUC4106	Philosophy and History of Education (3 credits)
EDUC4107	Assessment Of and For Learning (3 credits)

B.ED – ELEMENTARY ADDITIONAL CORE

EDUC4111	Facilitating a Comprehensive Literacy Program at the Elementary Level (3 credits)
EDUC4113	Teaching an Integrated Science Curriculum (3 credits)
EDUC4115	Teaching an Integrated Social Studies Curriculum (3 credits)
EDUC4116	Mathematics at the Elementary Level (3 credits)
EDUC4117	Assessment and Curriculum Instruction in Elementary Education (3 credits)
EDUC4118	Principles and Practice of Elementary Education (3 credits)
EDUC4989	Internship in the Elementary School (15 credits)

Please note: BEd students must successfully complete the coursework from semester one and two prior to beginning the practicum (EDUC 4989/4999).

15 credits in Education Electives

B.ED – INTERMEDIATE/SECONDARY ADDITIONAL CORE

EDUC4128	Principles and Practice of Secondary Education (3 credits)
EDUC4121	Literacy in the Content Areas (3 credits)

Twelve credits of methodology coursework chosen from:

EDUC4138	Technology Education I (3 credits)
EDUV4139	Technology Education II (3 credits)
EDUC4141	Science at the Secondary Level I (3 credits)
EDUC4143	Science at the Secondary Level II (3 credits)
EDUC4144	Social Studies at the Secondary Level I (3 credits)
EDUC4145	Social Studies at the Secondary Level II (3 credits)
EDUC4146	French Second Language at the Secondary Level I (3 credits)
EDUC4147	French Second Language at the Secondary Level II (3 credits)
EDUC4148	Fine Arts at the Secondary Level I (3 credits)
EDUC4149	Fine Arts at the Secondary Level II (3 credits)
EDUC4151	English Language Arts at the Secondary Level I (3 credits)
EDUC4153	English Language Arts at the Secondary Level II (3 credits)
EDUC4154	Mathematics at the Secondary Level I (3 credits)
EDUC4155	Mathematics at the Secondary Level II (3 credits)
EDUC4217	The Adolescent Learner (3 credits)
EDUC 4999	Internship in the Secondary School (15 credits)

Please note: BEd students must successfully complete the coursework from semester one and two prior to beginning the practicum (EDUC 4989/4999).

12 credits of Education Electives

ABORIGINAL EDUCATION CONCENTRATION

(*THIS PROGRAM OPTION IS CURRENTLY BEING DEVELOPED)*

Students completing the BEd with the Aboriginal Education Concentration will complete all requirements as outlined above for the common core and secondary/elementary core. Additionally, students will complete 12 of their 15 credits of elective courses within the 'Mi'kmaq Focus Electives'. The requirements for the Secondary and Elementary streams are outlined below:

Elementary Aboriginal Education:

- EDUC4131 Aboriginal Studies at the Elementary Level (3 credits)
- EDUC4133 Teaching English as a Second Language in an Additive Bilingual Model (3 credits)
- Two of:
  - EDUC4134 Introduction to Literacy and Fluency in Aboriginal Languages (3 credits)
  - EDUC4135 Advanced Reading and Writing in Aboriginal Languages (3 credits)
  - EDUC4136 Aboriginal/Indigenous Education Models (3 credits)
  - EDUC elective (3 credits)

Secondary Aboriginal Education:

- EDUC4140 Aboriginal Studies at the Secondary Level (6 credits)
- Two of:
  - EDUC4133 Teaching English as a Second Language in an Additive Bilingual Model (3 credits)
  - EDUC4134 Introduction to Literacy and Fluency in Aboriginal Languages (3 credits)
  - EDUC4135 Advanced Reading and Writing in Aboriginal Languages (3 credits)
  - EDUC4136 Aboriginal/Indigenous Education Models (3 credits)
  - EDUC elective (3 credits)

For further information please contact Susan Basso, Manager and Practicum Coordinator at susan_basso@cbu.ca or (902) 563-1651.

Bachelor of Science Nursing

The Bachelor of Science Nursing (BScN) is a four-year program that prepares nurses to practice in a variety of health care settings in hospitals and the community. Nursing is a distinctive health profession, both an art and a science that focuses on health promotion, maintenance and restoration, illness prevention and palliative care. The Nursing curriculum is a blend of biological and social sciences, humanities and nursing courses that combines academic and professional theory with nursing practice.

Admission Requirements

The Bachelor of Science Nursing is a limited entry program and therefore admission to the program is competitive. The Office of the Registrar ranks all eligible first year candidates based on their academic average. ***DEADLINE FOR APPLICATION:*** General Admission and Nursing Supplementary applications, along with all supporting documentation must be received by February 28 for consideration for admission for the following September start date.

Admission from High School

SCHOOL OF PROFESSIONAL STUDIES

Required: Five Grade 12 advanced or academic (university preparatory) courses including English; Mathematics; and two sciences (Chemistry and Biology recommended), with an overall average of at least 65% in both Grades 11 and 12.

Early fall admission from Grade 12 with an average of 80% from five Grade 11 advanced or academic (university preparatory) courses including English; Mathematics; and two sciences (Chemistry and Biology recommended), with a minimum grade of 80% in math and sciences. Applicant must also be registered in required grade 12 courses as listed above.

Admission from University

Applicants attending or having attended a University must meet the same requirements as listed above but can also complete the course requirements by taking degree level courses. A minimum mark of 60% is required in degree level courses.

BACHELOR OF SCIENCE NURSING PROGRAM REQUIREMENTS			
YEAR ONE (33 credits)	**YEAR TWO (39 credits)**	**YEAR THREE (30 credits)**	**YEAR FOUR (30 credits)**
NURS1101	NURS2101	NURS3101	NURS4101
NURS1103	NURS2103	NURS3102	NURS4103
NURS1104	NURS2104	NURS3103	NURS4104
BIOL1101	NURS2990 (Spring)	NURS3100	NURS4990
MICR2101	NURS2105	NURS3104	NURS4105
CHEM1101	NURS2106	NURS3105	NURS4106
CHEM1103	BIOL3200	6 credits arts/science electives	NURS4801 - Advanced major only
PHIL 2129	NUTR2104		9 credits open electives (only 3 needed if doing NURS4801 Advanced Major)
PHIL2131	NUTR2105		
PSYC1100	PSYC2600		

PROGRAM REQUIREMENTS

Current certification in standard first aid and Level C CPR are required for entrance into the program. Students in the Nursing program are responsible for annual recertification of CPR.

Students must be screened through the Child Abuse Registry database of their home province and Nova Scotia and have a criminal records check completed at their municipal police department, or local detachment of the RCMP, prior to entry into the program. ***Documentation of both is required***. Prospective students are advised that the College of Registered Nurses of Nova Scotia (CRNNS) (licensure body for nurses) requires disclosure of criminal activity prior to consideration for registration by the CRNNS. Those deemed a risk to others may not be considered for registration by the CRNNS.

Prior to entering the program, students are responsible for having their immunizations up to date. Hepatitis B immunization and tuberculin (Mantoux) testing are also recommended.

A grade of 65% in each NURS course is required for students to progress through the program.

To have courses qualify as a transfer credit for NURS3102 and for NURS3100, the mark in the course must be at least a 65%.

To move from first year to second year, an overall average of 60% is required.

Prior to registering for NURS2990 (Nursing Practice 1 – Spring Intersession), students must have successfully completed BIOL3200, in addition to all Level 1 and 2 Nursing courses to date.

To progress from second to third year, students must have an average of 60%.

BIOL1101 and 3200, CHEM1101/1103and MICR2101,and all first- and second-year nursing courses, must be completed before the student may progress to the third year. All required program electives should be successfully completed prior to the winter term in the fourth year of the program.

Students who fail nursing courses will be permitted to write a final supplementary exam, provided that their midterm/final exam combined marks are 60 – 64% inclusive. The maximum course mark awarded will be 65%. The number of supplementary exams in nursing courses will not exceed one per year and two per the overall nursing program.

A pass must be received in the practice component of a NURS course for the student to progress to the next NURS course.

Students who fail to meet the progression requirements on two occasions are ineligible for re-admission to the program.

In all nursing practice situations, students must perform in accordance with the legal, ethical, moral and professional standards set out in the profession's Code of Ethics (2008), the Registered Nurses in Nova Scotia (CRNNS 2009), the Standards of Nursing Practice (CRNNS 2004) and the Nursing Program Objectives. Further, behaviour unbecoming of a nurse that is manifested outside the classroom or practice settings and has the potential to endanger public health or safety may warrant a professional alert or failure, which may result in dismissal from the program, pending due process. Student nurses are expected to act in a manner comparable to the average prudent nurse at a particular level in the program, regardless of the setting.

NURSING PRACTICE REQUIREMENTS

Students will participate in nursing practice rotations in sites other than their location of residence.

Students will be expected to participate in nursing practice rotations scheduled at various times including evenings, nights, and weekends.

A pass must be received in the nursing practice component of a NURS course for the student to progress to the next NURS course.

Students are required to make up missed nursing practice time. Extended absences for nursing practice are evaluated by the Chair, Department of Nursing. Make up time in nursing and tutorial experiences may not always be available.

Students will not normally be permitted to withdraw from a course to avoid nursing failure.

Receipt of a nursing practice failure will result in dismissal from the program.

Students receiving a nursing practice failure will not normally be re-admitted to the program for a minimum of one year following the failure. Re-admission will be at the discretion of the Dean in consultation with the Chair of Nursing. Students re-admitted following a nursing practice failure will return with nursing practice improvement status. A second failure will result in permanent dismissal from the program.

BSc in Nursing with Advanced Major

Admission Requirements

Students who wish to enter the advanced major must apply by March 31 of their third year, after meeting with the Associate Dean or Department Chair from the Nursing program. The application must be approved first by the Associate Dean/Department Chair and then by the Dean.

SCHOOL OF PROFESSIONAL STUDIES

The normal admission requirements are:

- An average of at least 60% in each of the first and second years;
- Grades of at least 65% in each NURS course;
- No nursing practice improvement in the first and second years.

Exceptions to these requirements require the approval of the Dean.

COURSE PATTERN

The course pattern is the same as for the general BScN, except that the three credits earned for NURS 499 will replace three of the required nine open elective credits.

DEGREE REQUIREMENTS

To qualify for a BScN with advanced major, candidates must have:

- Been admitted to the program;
- Earned a general average of at least 70% in each of the two final years;
- Earned a grade of at least 70% in each NURS course in each of the third and fourth years;
- Fulfilled the course requirements of the department and satisfied the seminar/independent practice requirements;
- Received no nursing alert in the four years.

A student who fails to meet the required average may qualify for the general degree.

Bachelor of Health Sciences (Public Health)

The Bachelor of Health Sciences (Public Health) program is devoted to the environmental health dimension of public health. It is accredited by the Canadian Institute of Public Health Inspectors and graduates are academically eligible to sit for national certification examinations leading to the credential Certified Public Health Inspector (Canada) - CPHI(C). The program is available in a four-year option, a two-year post-diploma/degree accelerated option and a one-year professional degree completion option, available via distance education for those already holding the CPHI(C) credential.

Admission Requirements

High School Graduates: five Grade 12 advanced or academic courses including English, Mathematics, Chemistry and one other science; with an overall average of at least 60%. Biology is recommended.

Diploma/Degree Graduates: appropriately accredited community college diploma at the technologist level, or university science degree, where the programs are a reasonable match. The following term-courses or their equivalents are required for entry into the two-year accelerated option:

- General Chemistry;
- Communication or English (2);
- Biology;
- Organic Chemistry;
- Introductory Microbiology;
- Math;
- Anatomy & Physiology;
- Statistics;
- Physics;
- Science/Technology Elective;
- Free Electives (5).

Partially completed diploma/degree: Admissions and course selection will be done on an individual basis in consultation with an academic advisor from the program.

SCHOOL OF PROFESSIONAL STUDIES

In-career health inspectors: CPHI(C) credential is required to enter the one-year professional degree completion option.

FOUR-YEAR PROGRAM

Term One (Fall)
CHEM1101 General Chemistry for Nursing & Allied Health Science
ENGL1103 Introduction to Academic Writing
MATH1107 Math I
PUBH1101 Cell Processes and Environmental Effects
PUBH1104 Physical Agents & Their Health Effects

Term Two (Winter)
CHEM1103 Introductory Organic Chemistry for Nursing & Allied Health Science
ENGL1105 Research and Writing
MATH1109 Statistics I
NUTR1101 Community Nutrition
Free Elective

Term Three (Fall)
MICR2101 Introductory Microbiology
PUBH2108 Engineering Issues in Public Health
PUBH2107 Emergency Preparedness
PUBH4105 Occupational Health and Safety Legislation
Free Elective

Term Four (Winter)
PUBH2104 Anatomy & Physiology
PUBH3101 Food Hygiene
PUBH3103 Public Health Administration
PUBH3106 Epidemiology
Science/Technology Elective

Term Five (Fall)
PUBH1103 Issues in Public Health
PUBH2103 Public Health Law
PUBH2105 Public Health Inspection
PUBH3105 Public Health Ethics
PUBH4107 Quality & Environmental Project Mgt

Term Six (Winter)
ENVI2163 Occupational Hygiene
PUBH2101 Municipal Services
PUBH4103 Communicable Disease Control
PUBH4104 Food Borne Disease
Free Elective

Term Seven (Fall)
PUBH2106 Food Quality
PUBH3104 Toxicology
PUBH4108 Biocontaminants in Indoor Environments
PUBH4109 Waste Management
Free Elective

Term Eight (Winter)
ENVI2161 Air Pollution
PUBH4101 Health Risk Assessment
PUBH4106 Public Health Education
PUBH4111 Integrated Pest Management
Free Elective

The four-year program is available to secondary school graduates and is composed of 40 term courses. Upon completion of this program, students are academically eligible to apply to take the national certification examinations leading to the credential Certified Public Health Inspector (Canada) CPHI(C). An appropriate 12-week practicum is also a requirement for certification. Compliance with CIPHI practicum criteria and other certification requirements is a student responsibility, and does not lie with CBU.

TWO-YEAR ACCELERATED POST DIPLOMA/DEGREE FORMAT

Term One (Fall)
PUBH1103 Issues in PH
PUBH2103 Public Health Law
PUBH2105 Public Health Inspection
PUBH2107 Emergency Preparedness
PUBH3105 Public Health Ethics
PUBH4105 Occupational Health and Safety Legislation

Term Two (Winter)
NUTR1101 Community Nutrition
ENVI2163 Occupational Hygiene
PUBH3101 Food Hygiene
PUBH3103 Public Health Administration
PUBH3106 Epidemiology
PUBH4104 Food Borne Disease

Term Three (Fall)
PUBH2108 Engineering Issues in PH
PUBH2106 Food Quality
PUBH3104 Toxicology
PUBH4108 Biocontaminants in Indoor Environments
PUBH4109 Waste Management
PUBH4107 Quality & Environmental Project Management

Term Four (Winter)
PUBH2101 Municipal Services
PUBH4103 Communicable Disease Control
ENVI2161 Air Pollution
PUBH4101 Health Risk Assessment
PUBH4106 Public Health Education
PUBH4111 Integrated Pest Management

An average of 60% must be achieved in the 24 courses listed in the two year option. Graduates are eligible to receive a Bachelor of Health Sciences (Public Health) degree.

Upon completion of this program, students are academically eligible to apply to take national certification examinations leading to the credential Certified Public Health Inspector (Canada) - CPHI(C). An appropriate 12 week practicum is also a

requirement for certification. Compliance with CIPHI practicum criteria and other certification requirements is a student responsibility and does not lie with CBU.

ONE-YEAR PROFESSIONAL DEGREE COMPLETION FORMAT

Students who already hold the CPHI(C) credential are eligible to receive the Bachelor of Health Sciences (Public Health) degree upon completion of the 12 term courses below, offered via distance education (online). Two of these courses are offered in each term by rotation, requiring a minimum of six terms (24 months) to complete the program.

PUBH2107 Emergency Preparedness
PUBH3103 Public Health Administration
PUBH3104 Toxicology
PUBH3106 Epidemiology
PUBH4101 Health Risk Assessment
PUBH4103 Communicable Disease Control
PUBH4105 Occupational Health and Safety Legislation
PUBH4106 Public Health Education
PUBH4107 Quality and Environmental Project Mgt
PUBH4108 Biocontaminants in Indoor Environments
PUBH4109 Waste Management
PUBH4111 Integrated Pest Management

Bachelor of Science in Human Nutrition (Transfer)

A degree in Human Nutrition provides valuable information on eating well and opens exciting career opportunities (e.g. dietician or researcher). CBU offers courses in Nutrition, Chemistry, Biology, Mathematics, Business, and electives that will allow students to complete the first two years of an honours degree in Human Nutrition. A further two years of study at St. Francis Xavier University will complete the degree. Students who complete the required pattern of courses with an overall average in second year of a minimum of 55 % and a minimum average of 60 % in their Nutrition courses, will have the opportunity to enter the third year of the program at St. Francis Xavier University.

Admission Requirements

Five grade 12 academic or advanced courses including English; Math; two of Biology, Chemistry, Geology, or Physics; one other academic or advanced course with an average of at least 60%. Pre-calculus Mathematics, Chemistry and Biology are recommended.

REQUIRED COURSES

Year One
BIOL1101 Cell and Molecular Biology I (3 credits)
MICR2101 Introductory Microbiology (3 credits)
MATH1109 Introductory Statistics I (3 credits)
CHEM1104 General Chemistry I (3 credits)
CHEM1105 General Chemistry II (3 credits)
One of:
ACCT1203 Introductory Financial Accounting I (3 credits)
or
MRKT1301 Introduction to Marketing (3 credits)
or
MGMT3605 Human Resource Management (3 credits)

Plus:
MGMT2604 Organizational Behaviour I (3 credits)
Humanities or Social Sciences (6 credits)

Elective(s) (3 credits)

Year Two
CHEM2301 Introductory Organic Chemistry I (3 credits)
CHEM2601 Introductory Biochemistry I (3 credits)
NUTR2104 Introduction to Nutrition (3 credits)
NUTR2106 Principles of Nutrition in Human Metabolism (3 credits)
BIOL3200 Human Anatomy and Physiology (6 credits)

Humanities or Social Sciences – (6 credits). If Humanities taken in Year One, take Social Sciences in Year Two, if Social Sciences taken in Year 1, take Humanities in Year 2.
Electives (6 credits)

MICR2101 should be taken in the winter term (January - April) of the first year of the Nutrition transfer option, unless the student has already satisfactorily completed MICR2101. Students whose schedule will not accommodate the winter offering of MICR2101 should take it in the fall term of their first year of the Nutrition transfer option.

Students should register for BIOL3200, as soon as possible upon the completion of all pre-requisites for BIOL3200 to avoid being placed on a waiting list for BIOL3200 resulting in a possible delay of one year before going to St. FX. BIOL1101 and MICR2101 are to be taken in the first year of the Nutrition transfer option and are the BIOL3200 pre-requisites most frequently taken by Nutrition transfer option students.

Nutrition transfer option students wishing to go to St. FX in Fall 2011 must have taken NUTR265/2106 in Fall 2009 unless NUTR265/2106 had already been satisfactorily completed. Nutrition transfer option students wishing to go to St. FX in Fall 2012 or Fall 2013 must take NUTR2106 in Fall 2011 unless NUTR265 has already been satisfactorily completed. NUTR2106 will be offered next in Fall 2011 and not again thereafter until Fall 2013. Students are responsible for ensuring that they have taken the pre-requisite course(s) for all CBU courses required for the Nutrition transfer option, prior to attempting to register for any such courses requiring one or more pre-requisite course(s).

Humanities: English, French, History, Religious Studies, Philosophy, Spanish, Celtic Culture
Social Sciences: Anthropology, Sociology, Psychology, Economics, Political Science

Diploma Programs

Diploma in Education (Curriculum)

This graduate level program is intended for learners who wish to pursue a deeper understanding of curriculum development. It has been available from CBU since 1983 and has been delivered both on campus and by distance. Beginning with the meaning and purpose of curriculum, the learner completes the program by developing a model curriculum that may be used in his or her class. Formal admission to the program is required. Courses are offered on a part-time basis and completion of the diploma takes approximately two years. Individual courses may be taken with the permission of the Dean.

REQUIRED COURSES
EDUC5102 The Meaning and Purpose of Curriculum (6 credits)
EDUC5110 Teaching Canadian Culture (6 credits)
EDUC5112 Learning Resources (6 credits)
EDUC5120 Issues in Planning, Designing and Developing Curriculum (6 credits)
EDUC5122 Research/Curriculum Development (6 credits)

Diploma in Education (Counseling)

This graduate level diploma program has been available from CBU since 1994. It is intended to enhance counseling skills for classroom teachers. With courses in counseling theory, differentiated instructional issues, individual and career

counseling, testing and a supervised practicum, the diploma has proven beneficial to K-12 teachers in a variety of teaching and resource positions. Formal admission into the program is required. Courses are offered on a part-time basis allowing for the program to be completed in three years. Individual courses may be taken with the permission of the Dean.

REQUIRED COURSES

EDUC5109 An Introduction to Theories and Issues in Counseling (3 credits)
EDUC5111 Cultural Issues in an Educational Setting (3 credits)
EDUC5113 Human Relations Development (3 credits)
EDUC5114 Career Counseling (3 credits)
EDUC5142 Individual Testing (6 credits)
EDUC5150 Identification and Remediation of Learning Difficulties (6 credits)
EDUC5991 Counseling Practicum I (3 credits)
EDUC5993 Counseling Practicum II (3 credits)

Diploma in Educational Technology

This program is designed to improve the technological skills of classroom teachers and to provide an in-depth exploration of the integration of technology across the curriculum. It is appropriate for teachers of all subject areas. Computer access is required as the program is delivered entirely over the World Wide Web. This program may lead to further education through a Master of Education (Information Technology) program.

REQUIRED COURSES

EDUC5132 Principles of Computing & Implication for Instruction (6 credits)
EDUC5101 Assessment of Software and Information Technology Applications for Education (3 credits)
EDUC5103 Integration of Instructional Design and Information Technology (3 credits)
EDUC5104 Application of Learning Theory in Education Multimedia Design (3 credits)
EDUC5105 Designing Web-Based Learning (3 credits)
EDUC5106 Technology Planning for Educational Environments (3 credits)
EDUC5107 Information Management in Education Environments (3 credits)
EDUC5800 Applied Research Project (6 credits)

Certificate Programs

Certificate in Educational Studies

The Certificate in Educational Studies is awarded to teachers and school administrators who complete a sabbatical program following the guidelines established by the Institute for Education. This supervised year of study requires the completion of 30 credits in an approved subject area, including an advanced graduate seminar and an internship/research project.

Certificate in Educational Studies (Arts Education)

The Educational Studies Certificate in Arts Education addresses the needs of two distinctive groups of teachers: general classroom teachers who are committed to teaching and learning through the arts and specialist teachers engaged in teaching the arts.

Students have the opportunity to pursue a specific arts discipline through concentrated study and practical application. The certificate consists of 24 graduate-level credits and the teacher’s choice of six credits from Fine Arts courses listed in this calendar.

All courses will initially be offered on campus at CBU and may be converted for distance delivery should student needs dictate.

REQUIRED COURSES

SCHOOL OF PROFESSIONAL STUDIES

EDUC5100 Developmental Drama (6 credits)
EDUC5130 Phenomenology of Childhood (6 credits)
EDUC5802 Applied Research Project (6 credits)
EDUC5810 Advanced Graduate Seminar (6 credits)
Six credits of Fine Arts courses

SCHOOL OF SCIENCE AND TECHNOLOGY

DAVID MCCORQUODALE, PHD - DEAN

The School of Science and Technology is the home of a wide variety of courses and programming in science, engineering and technology. The offerings include:

Bachelor of Science Degree - Four Year Honours, Four Year Major, Four Year Double Major and Three Year General:
Biology
Chemistry
Mathematics
Psychology

Bachelor of Science Community Studies Degree - concentrations in:
Biodiversity
Integrative Science
Psychology, Health and Environment
Bachelor of Technology Degrees
Emergency Management
Nautical Sciences

Bachelor of Engineering Degree - Transfer - options in:
Chemical
Civil
Electrical and Computer
Environmental
Industrial
Materials
Mechanical
Mineral Resources

Bachelor of Engineering Technology Degree in:
Bachelor of Engineering Technology (Electronics and Controls)
Bachelor of Engineering Technology (Environmental Studies)
Bachelor of Engineering Technology (Manufacturing)
Bachelor of Engineering Technology (Petroleum)
Engineering Technology Diploma in (co-op and non co-op options)
Electrical (Instrumentation & Controls) Engineering Technology
Mechanical Engineering Technology
Petroleum Engineering Technology

Certificates in:
Petroleum Operations
Liquified Natural Gas (LNG) Operations

CBU has developed several engineering facilities which allow the integration of leading-edge technology and education programs. A CAD/CAM Centre fosters applied research and development in the modern manufacturing sector and a CAD laboratory specializes in training in computer-aided drafting and design.

Departments

Biology

Chair, Sean Modesto, PhD

The Department of Biology delivers courses in Biology and MSIT for all degree programs. It includes Biology and Integrative Science faculty with primary responsibility for the BSc in Biology, the BScCS in Biodiversity and the BScCS in Integrative Science. The Department of Biology shares responsibility for the BScCS in Psychology, Health and Environment with the Department of Psychology.

Chemistry

Chair, Adango Miadonye, PhD

The department offers CSC accredited four-year BSc Honours and BSc major programs in Chemistry. Three-year general BSc and BA degrees with a concentration in Chemistry are also available. Chemistry can be used as the first or second major in the BSc double major or BSc double major with honours degree programs.

Engineering

Chair, Bill Bailey, MSc, PEng

CBU houses the newest Engineering Department in the province and is second in size only to that at Dalhousie University. The department is responsible for the Engineering Transfer Diploma, Engineering Technology Diploma, Bachelor of Technology Degree and the Bachelor of Engineering Technology Degree programs.

Mathematics, Physics and Geology

Chair, Edmund Rudiuk, PhD

The Department of Mathematics, Physics and Geology includes faculty in Mathematics, Physics and Geology with primary responsibility for the BSc in Mathematics and the Computer Science Transfer program.

Psychology

Chair, Katherine Covell, PhD

The Department of Psychology focuses on the scientific study of mental processes and delivers a full range of courses for Psychology majors in the three- and four-year BA, BSc and BACS programs.

Bachelor of Science

Admission Requirements

Required: Five Grade 12 advanced or academic courses including English; two Sciences (one of which must be Biology, Chemistry, or Physics); and Mathematics or Pre-Calculus Mathematics with an overall average of at least 60%. Recommended: Pre-Calculus Mathematics.

Students may substitute one Grade 12 open course for one advanced or academic course, except where a particular course is specified. Environmental Science 12 may be used as the second science with Biology, Chemistry or Physics. These regulations were accurate at the time of printing. Some changes are anticipated. Please check with the Dean’s office for current regulations.

SCHOOL OF SCIENCE AND TECHNOLOGY

Three- and four-year degrees are available in Biology, Chemistry, Mathematics and Psychology. There are four different categories of BSc programs: the three-year general program, the four-year major program, the four-year honours program and the four-year double major program. Students may specialize in Biology, Chemistry, Mathematics or Psychology in either a three- or four-year BSc program.

Students may choose to enter any of the BSc program options when they begin their BSc. Those who begin in the three-year program may change to a four-year program at a later date, if they meet program requirements for average and grades. Students who begin in a four-year program must attain the required average and grades to remain in the program. Students planning to take a calculus course must write the Calculus Readiness Test.

Departmental Regulations

BIOLOGY

A three-year degree requires:

1. Core Courses - 18 credits
   - 6 credits English at 1000 and/or 2000 level
   - 6 credits PHIL 2222, or 3 credits HUMA/Social Science and 3 credits of a 2000-level PHIL. A social science is ANTH, AN/S, ECON, POLS, SOCO, or PSYC.
   - 6 credits MATH: To fulfill the mathematics requirement students must include 3 credits from MATH1101, MATH1105, or MATH1109 plus 3 additional credits from any MATH course other than MATH1107, MATH1208, , MATH1114, MATH1215 and MATH1216.
2. Biology Specialization - 36 credits
   - 12 credits BIOL: BIOL1101, BIOL1601, BIOL2101, BIOL2501
   - 24 credits additional BIOL with at least 6 credits beyond the 2000 level.
3. Another Science - 12 credits
   - From a second discipline of science: CHEM, GEOL, MATH, MSIT, NUTR, PHYS or PSYC.
4. Free Electives - 24 credits
5. An average of 60% in courses in Biology specialization in last two years of program.
6. An average of 55% over the entire 90-credit program.
7. 3 credits of Organic Chemistry must be included in one of the following categories: Science or free electives.

A four-year degree with a Biology major requires:

1. Core Courses - 18 credits
   - 6 credits English at 1000 and/or 2000 level
   - 6 credits PHIL 2222, or 3 credits HUMA/Social Science and 3 credits of a 2000-level PHIL. A social science is ANTH, AN/S, ECON, POLS, SOCO, or PSYC.
   - 6 credits MATH: To fulfil the mathematics requirement students must include 3 credits from MATH1101, MATH1105, or MATH1109 PLUS 3 additional credits from any MATH course other than MATH1107, MATH1208, MATH1114, MATH1215 and MATH1216.
2. Biology Major - 54 credits
   - 12 credits BIOL: BIOL1101, BIOL1601, BIOL2101, BIOL2501
   - 42 credits additional BIOL courses of which 24 credits must be beyond the 2000 level including at least 6 credits at the 4000 level.
3. Area of Minor - 12 credits
   - From a second discipline of science: CHEM, GEOL, MATH, MSIT, NUTR, PHYS, or PSYC.
4. Science Electives - 12 credits
   - Generally courses from BIOL, CHEM, GEOL, MATH, MSIT, NUTR, PHYS or PSYC are acceptable - some exceptions exist.
5. Free Electives - 24 credits
6. An average of 65% in courses in Biology major in last three years of program.
7. An average of 60% over the entire 120-credit program.

8. 3 credits of Organic Chemistry must be included in one of the following categories: area of minor, science electives, or free electives.
9. 3 credits of Statistics (one of MATH1109, MATH2106, or PSYC2101) are required.

A four-year degree with a Biology major with honours requires:

1. Core Courses - 18 credits
   - 6 credits English at 1000 and/or 2000 level
   - 6 credits PHIL 2222, or 3 credits HUMA/Social Science and 3 credits of a 2000-level PHIL. A social science is ANTH, AN/S, ECON, POLS, SOCO, or PSYC.
   - 6 credits MATH: To fulfil the mathematics requirement students must include 3 credits from MATH1101, MATH1105, or MATH1109 PLUS 3 additional credits from any MATH course other than MATH1107, MATH1208, , MATH1114, MATH1215 and MATH1216.
2. Biology Major - 54 credits
   - 18 credits BIOL: BIOL1101, BIOL1601, BIOL2101, BIOL2501, BIOL4900.
   - 36 credits additional BIOL courses of which 18 credits must be beyond the 2000 level including at least 6 credits at the 4000 level.
3. Area of Minor - 12 credits
   - From a second discipline of science: CHEM, GEOL, MATH, MSIT, NUTR, PHYS, or PSYC.
4. Science Electives - 12 credits
   - Generally courses from BIOL, CHEM, GEOL, MATH, MSIT, NUTR, PHYS, and PSYC are acceptable - some exceptions exist.
5. Free Electives - 24 credits
6. An average of 75% in courses in Biology major in last three years of program.
7. An average of 70% over the entire 120-credit program.
8. 3 credits of Organic Chemistry must be included in one of the following categories: area of minor, science electives, or free electives.
9. 3 credits of Statistics (one of MATH1109, 2106, or PSYC2101) are required.

A four-year double major degree with Biology as the first major requires:

1. Core Courses - 18 credits
   - 6 credits English at 1000 and/or 2000 level
   - 6 credits PHIL 2222, or 3 credits HUMA/Social Science and 3 credits of a 2000-level PHIL. A social science is ANTH, AN/S, ECON, POLS, SOCO, or PSYC.
   - 6 credits MATH: To fulfil the mathematics requirement students must include 3 credits from MATH1101, MATH1105, or MATH1109 plus three additional credits from any MATH course other than MATH1107, MATH1208, MATH1114, MATH1215 and MATH1216.
2. Biology Major - 54 credits
   - 12 credits BIOL: BIOL1101, BIOL1601, BIOL2101, BIOL2501
   - 42 credits additional BIOL courses of which 24 credits must be beyond the 2000 level including at least 6 credits at the 4000 level.
3. Area of Second Major - 36 credits
   - All from one science other than Biology (CHEM, GEOL, MATH, MSIT, NUTR, PHYS, or PSYC). If Math, then 6 credits of Math in the core will be replaced by 6 credits of science electives.
4. Free electives - 12 credits
5. An average of 65% in courses in area of first major in last three years of program.
6. An average of 60% in courses in area of second major in last three years of program
7. An average of 60% over the entire 120 credit program.
8. 3 credits of Organic Chemistry must be included in one of the following categories: area of second major or free electives.
9. 3 credits of Statistics (one of MATH1109, MATH2106, or PSYC2101) must be included.

SCHOOL OF SCIENCE AND TECHNOLOGY

A degree with honours in the area of the first major and major in the area of the second major may be awarded where the additional requirements for the 4-year BSc degree with honours have been met.

CHEMISTRY

A three-year degree requires:

1. Core Courses - 18 credits
   - 6 credits English at 1000 and/or 2000 level
   - 6 credits PHIL or HUMA/PHIL: 2222, or 3 credits HUMA/Social Science and 3 credits of a 2000-level PHIL. PHIL2222 is highly recommended. A social science is ANTH, AN/S, ECON, POLS, SOCO, or PSYC. PSYC cannot be used in the core for Psychology Degree programs.
   - 6 credits MATH1105 (or 1206)
2. Chemistry Specialization - 36 credits
   - 24 credits CHEM: CHEM1104, CHEM1105, CHEM2201, CHEM2203, CHEM2301, CHEM2303, CHEM2501, CHEM2403
   - 12 credits additional CHEM with at least 6 credits beyond the 2000 level.
3. Other Science - 12 credits
   - From a second discipline of science: BIOL, ENGI, GEOL, MATH, NUTR, PHYS, or PSYC.
4. Free Electives - 24 credits.
5. An average of 60% in courses in Chemistry specialization in last two years of program.
6. An average of 55% over the entire 90-credit program.

A four-year degree with a Chemistry major requires:

1. Core courses (18 credits)
   - 6 credits English at 1000 and/or 2000 level
   - 6 credits PHIL or HUMA/PHIL: 2222, or 3 credits HUMA/Social Science and 3 credits of a 2000-level PHIL. PHIL2222 is highly recommended. A social science is ANTH, AN/S, ECON, POLS, SOCO, or PSYC. PSYC cannot be used in the core for Psychology Degree programs.
   - 6 credits MATH1105 (1206)
2. Chemistry Major - 54 credits
   - 27 credits CHEM: CHEM1104, CHEM1105, CHEM2201, CHEM2203, CHEM2301, CHEM2303, CHEM2501, CHEM2601, CHEM2403
   - 27 credits additional CHEM to include 24 credits above the 2000 level of which at least 9 credits are at the 4000 level. Courses to include at least 3 of the 5 sub-disciplines for Chemistry (organic, inorganic, analytical, physical, biochemistry).
3. Area of minor - 12 credits
   - From a second discipline of science: BIOL, ENGI, GEOL, MATH, NUTR, PHYS, or PSYC.
4. Science electives - 12 credits
   - Generally courses from BIOL, CHEM, GEOL, MATH, NUTR, PHYS, and PSYC are acceptable.
5. Free electives - 24 credits
6. An average of 65% in courses in Chemistry major in last three years of program.
7. An average of 60% over the entire 120-credit program.
8. MATH1116, MATH2113 (CHEM3201), MATH2214 (CHEM3203), PHYS1104 and PHYS1204 must be included in 2, 3, 4 or 5 above.

A four-year degree with a Chemistry major with honours requires:

1. Core courses (18 credits)
   - 6 credits English at 1000 and/or 2000 level
   - 6 credits PHIL or HUMA/PHIL: 2222, or 3 credits HUMA/Social Science and 3 credits of a 2000-level PHIL. PHIL2222 is highly recommended. A social science is ANTH, AN/S, ECON, POLS, SOCO, or PSYC. PSYC cannot be used in the core for Psychology Degree programs.

- 6 credits MATH1105 (or 1206)

2. Chemistry Major - 60 credits
   - 27 credits CHEM: CHEM1104, CHEM1105, CHEM2201, CHEM2203, CHEM2301, CHEM2303, CHEM2501,CHEM2601, CHEM2403,
   - 27 credits additional CHEM to include 24 credits above the 2000 level of which at least 9 credits are at the 4000 level. Courses to include at least 3 of the 5 sub-disciplines of Chemistry (organic, inorganic, analytical, physical, biochemistry).
   - 6 credits thesis (CHEM4900)
3. Area of Minor - 12 credits
   - From a second discipline of science (BIOL, ENGI, GEOL, MATH, NUTR, PHYS, or PSYC).
4. Science Electives 12 credits
   - Generally courses from BIOL, CHEM, GEOL, MATH, NUTR, PHYS, and PSYC are acceptable.
5. Free electives –18 credits.
6. An average of 75% in courses in Chemistry major in last three years of program.
7. An average of 70% over the entire 120-credit program.
8. MATH1116, MATH2113 (CHEM3201), MATH2214 (CHEM3203), PHYS1104 and PHYS1204 must be included in 2, 3, 4 or 5 above.

A four-year double major degree with Chemistry as the first major requires:

1. Core Courses (18 credits)
   - 6 credits English at 1000 and/or 2000 level
   - 6 credits PHIL or HUMA/PHIL: 2222, or 3 credits HUMA/Social Science and 3 credits of a 2000-level PHIL. PHIL2222 is highly recommended. A social science is ANTH, AN/S, ECON, POLS, SOCO, or PSYC. PSYC cannot be used in the core for Psychology Degree programs.
   - 6 credits MATH1105 (or 1206)
2. Chemistry Major - 54 credits
   - 27 credits CHEM: CHEM1104, CHEM1105,CHEM2201, CHEM2203, CHEM2301, CHEM2303, CHEM2501, CHEM2601, CHEM2403
   - 27 credits additional CHEM to include 24 credits above the 2000 level of which at least 9 credits are at the 4000 level. Courses to include at least 3 of the 5 sub-disciplines of Chemistry (organic, inorganic, analytical, physical, biochemistry).
3. Area of Second Major - 36 credits
   - All from one science other than Chemistry (BIOL, GEOL, MATH, NUTR, PHYS, or PSYC). If Math, then 6 credits of Math in the core will be replaced by 6 credits of Science Electives.
   - Must include at least 9 credits above the 2000 level, with at least 3 of these at the 4000 level.
4. Free Electives - 12 credits.
5. An average of 65% in courses in Chemistry major in last three years of program.
6. An average of 60% in courses in area of second major in last three years of program
7. An average of 60% over the entire 120-credit program.
8. MATH1116, MATH2113 (CHEM3201), MATH2214 (CHEM3203), PHYS1104 and PHYS1204 MUST be included in 2, 3, or 4 above.

A four-year double major degree with Chemistry as the first major with honours requires:

Core courses – 18 credits

- 6 credits English at 1000 and /or 200 level
- 6 credits PHIL or HUMA/PHIL: PHIL222, or 3 credits HUMA/social sciences and 3 credits of a 2000 level PHIL. PHIL2222 highly recommended. A social science is ANTH, AN/S, ECON, POLS, SOCO, or PSYC. PSYC cannot be used in the core for PSYC programs.
- 6 credits MATH1105 or (1206)

2. Chemistry Major – 57 credits

- 27 credits CHEM: CHEM~~1106~~1104, CHEM~~1107~~ 1105CHEM2201, CHEM2203, CHEM2301, CHEM2303, CHEM2501, CHEM2601, CHEM2403,
- 24 credits additional CHEM to include 21 credits above the 2000 level of which at least 9 credits are at the 4000 level. Courses to include at least 3 of the 5 sub-disciplines of Chemistry (organic, inorganic, analytical, physical, biochemistry).
- 6 credits thesis (CHEM4900)

3. Area of Second Major – 36 credits
   - All from one science other than Chemistry (BIOL, GEOL, MATH, NUTR, PHYS, or PSYC. If MATH, then 6 credits of mathematics in the core will be replaced by 6 credits of Social Science Electives.
   - Must include at least 9 credits above the 2000 level, with at least 3 of these at the 4000 level.
4. Free electives – 9 credits
5. An average of 65% in courses in Chemistry major in last three years of program.
6. An average of 60 % in courses in area of second major in last three years of program.
7. An average of 60% over the entire 120 credit program.
8. MATH1116, MATH2113 (CHEM3201), MATH2214 (CHEM3203), PHYS1104 and PHYS1204 MUST be included in 2, 3 or 4 above.

A degree with honours in the area of the first major and major in the area of the second major may be awarded where the additional requirements for the 4-year BSc degree with honours have been met.

MATHEMATICS

Bachelor of Science – Three year

1. Core Courses - (non-math) (12 credits)
   - 6 credits English at 1000 and/or 2000 level
   - 6 credits PHIL 2222, or 3 credits HUMA/Social Science and 3 credits of a 2000-level PHIL. A social science is ANTH, AN/S, ECON, POLS, SOCO, or PSYC.
2. Mathematics - 36 credits
   - 21 credits - MATH1204, MATH1105 (or MATH1203), MATH1206, MATH2101, MATH2103, MATH2208, and MATH2109
   - 15 additional MATH credits with at least 12 credits at 3000 level or above (cannot use MATH1101, MATH1114, or MATH1215)
3. Other Science - 18 credits
   - All from one science other than Mathematics BIOL, CHEM, ENGI, GEOL, NUTR, PHYS, or PSYC

   OR
   - 12 credits in one science (other than Mathematics) and 6 credits in another science (other than Mathematics). Economics and/or Business will be considered science for this section.
4. Free Electives - (24 credits)
5. An average of 60% in courses in Math specialization in last two years of program.
6. An average of 55% over the entire 90-credit program.
7. Computer proficiency must be shown using MATH1116.

Bachelor of Science – Four year Major

1. Core Courses - (non-math) (12 credits)
   - 6 credits English at 1000 and/or 2000 level
   - 6 credits PHIL 2222, or 3 credits HUMA/Social Science and 3 credits of a 2000-level PHIL. A social science is ANTH, AN/S, ECON, POLS, SOCO, or PSYC.
2. Mathematics Major - 54 credits
   - 24 credits - MATH1204, MATH1105 (or 1203), MATH1206, MATH2101, MATH2103, MATH2106, MATH2208, and MATH2109

- 30 additional MATH credits of which at least 24 credits must be at 3000 level or above with at least 9 credits at the 4000 level (cannot use MATH1101, 1114, 1216 or 1215).

3. Area of Minor - 18 credits
   - All from one science other than Mathematics (BIOL, CHEM, ENGI, GEOL, NUTR, PHYS, or PSYC)

   OR
   - 12 credits in one science other than Mathematics (BIOL, CHEM, ENGI, GEOL, NUTR, PHYS, or PSYC) and 6 credits in another science (other than Mathematics). May be Economics or Business.

   Economics and/or Business will be considered science for this section.
4. Science Electives - 12 credits
5. Free Electives - 24 credits
6. An average of 65% in courses in Math major in last three years of program.
7. An average of 60% over the entire 120-credit program.
8. Computer proficiency must be shown using MATH1116.

Bachelor of Science – Four year Major with Honours

1. Core Courses - 12 credits
   - 6 credits English at 1000 and/or 2000 level
   - 6 credits PHIL 2222, or 3 credits HUMA/Social Science and 3 credits of a 2000-level PHIL. A social science is ANTH, AN/S, ECON, POLS, SOCO, or PSYC.
2. Mathematics Major - 54 credits
   - 6 credits - MATH4900
   - 24 credits - MATH1204, MATH1105 (or MATH1203), MATH1206, MATH2101, MATH2103, MATH2106, MATH2208, and MATH2109.
   - 24 additional MATH credits of which at least 18 credits must be at 3000 level or above with at least 6 credits at the 4000 level not including MATH4900. (cannot use MATH1101, MATH1114, MATH1216 or MATH1215).
3. Area of Minor - 18 credits
   - All from one science other than Mathematics (BIOL, CHEM, ENGI, GEOL, NUTR, PHYS, or PSYC)

   OR
   - 12 credits in one science (other than Mathematics) and 6 credits in another science (other than Mathematics). May be Economics or Business. Economics and/or Business will be considered science for this section.
4. Science Electives - 12 credits
5. Free Electives - 24 credits
6. An average of 75% in courses in Math major in last three years of program.
7. An average of 70% over the entire 120-credit program.
8. Computer proficiency must be shown using MATH1116.

Bachelor of Science – Four year Double Major with Mathematics as First Major

1. Core Courses - 12 credits
   - 6 credits English at 1000 and/or 2000 level
   - 6 credits PHIL 2222, or 3 credits HUMA/Social Science and 3 credits of a 2000-level PHIL. A social science is ANTH, AN/S, ECON, POLS, SOCO, or PSYC.
2. Area of First Major - 54 credits
   - 24 credits MATH: MATH1204, MATH1105(or MATH1203), MATH1206, MATH2101, MATH2103, MATH2106, MATH2208, and MATH2109.
   - 30 additional MATH credits of which at least 24 credits must be at 3000 level or above with at least 9 credits at the 4000 level (cannot use MATH1101, MATH1114, MATH1216 or MATH1215).
3. Area of Second Major - 36 credits.
   - At least 9 credits must be above 2000 level with at least 3 credits at the 4000 level.
   - All from one science other than Mathematics. May be Economics or Business.
   - The requirements for a second major in Mathematics are the same as those for the Mathematics requirements in the 3-year degree.

4. Science Electives - 6 credits
5. Free Electives - 12 credits
6. An average of 65% in courses in area of first major in last three years of program.
7. An average of 60% in courses in area of second major in last three years of program
8. An average of 60% over the entire 120 credit program.
9. Computer proficiency must be shown using MATH1116.

A degree with honours in the area of the first major and major in the area of the second major may be awarded where the additional requirements for the 4-year BSc degree with honours have been met.

PSYCHOLOGY

A three-year degree requires:

1. Core Courses - 18 credits
   - 6 credits English at 1000 and/or 2000 level
   - 6 credits: PHIL 2222, OR any (3-credit 2000-level Philosophy AND 3-credits of {Humanities OR a Social Science [other than Psychology]}).
   - 6 credits MATH except MATH1107, MATH1208, , MATH1114, MATH1215 and MATH1216.
2. Psychology Specialization (36 credits)
   - 18 credits required Psychology courses: PSYC1100, PSYC2101, PSYC2111, PSYC3101, and PSYC3213.
   - 18 credits of other Psychology courses.
3. Other Science - 12 credits
   - All from one science other than Psychology (BIOL, CHEM, GEOL, MATH, MSIT, NUTR, or PHYS).
4. Free Electives - 24 credits
5. An average of 60% in courses in Psychology Specialization in last two years of program.
6. An average of 55% over the entire 90-credit program.
7. Computer proficiency met with PSYC3101.

A four-year degree with a Psychology major requires:

1. Core Courses - 18 credits
   - 6 credits English at 1000 and/or 2000 level
   - 6 credits: PHIL 222, OR any (3-credit 200-level Philosophy AND 3-credits of {Humanities OR a Social Science [other than Psychology]}).
   - 6 credits MATH except MATH1107, MATH1208, , MATH1114, MATH1215 and MATH1216.
2. Psychology Major - 54 credits
   - 27 credits required Psychology courses: PSYC1100, PSYC2101, PSYC2111, PSYC3101, PSYC3203, PSYC3211, PSYC3213, and PSYC4101.
   - Other Psychology courses (27 credits): Should include at least 6 credits at the 4000 level in addition to 4101.
   - In the event that students do not have the Directed Study course, any 6 credits at the 4000 level are acceptable.
3. Area of Minor - 12 credits
   - All from one science other than Psychology (BIOL, CHEM, GEOL, MATH, MSIT, NUTR, or PHYS).
4. Science Electives - 12 credits
5. Free Electives - 24 credits
6. An average of 65% in courses in Psychology major in last three years of program.
7. An average of 60% over the entire 120-credit program.
8. Computer proficiency met with PSYC3101.

A four-year degree with a Psychology major with honours requires:

1. Core Courses - 18 credits
   - 6 credits English at 1000 and/or 2000 level

- 6 credits: PHIL 222, OR any (3-credit 200-level Philosophy AND 3-credits of {Humanities OR a Social Science [other than Psychology]}).
- 6 credits MATH except MATH1107, MATH1208, , MATH1114, MATH1215 and MATH1216.

2. Psychology Major - 60 credits
   - 33 credits required Psychology courses: PSYC1100, PSYC2101, PSYC2111, PSYC3101, PSYC3203, PSYC3211 PSYC3213, PSYC4101, and PSYC4900.
   - 27 credits of other Psychology courses including at least 3 credits at the 4000 level in addition to 4101 and 4900).
3. Area of Minor - 12 credits
   - All from one science other than Psychology (BIOL, CHEM, GEOL, MATH, MSIT, NUTR, or PHYS).
4. Science Electives - 12 credits
5. Free Electives - 18 credits
6. An average of 75% in courses in Psychology major in last three years of program.
7. An average of 70% over the entire 120-credit program.
8. Computer proficiency met with PSYC3101.

A four-year double major degree with Psychology as the first major requires:

1. Core Courses - 18 credits
   - 6 credits English at 1000 and/or 2000 level
   - 6 credits: PHIL 222, OR any (3-credit 200-level Philosophy AND 3-credits of {Humanities OR a Social Science [other than Psychology]}).
   - 6 credits MATH except MATH1107, MATH1208, , MATH1114, MATH1215 and MATH1216.
2. Psychology Major - 54 credits
   - 27 credits required Psychology courses: PSYC1100, PSYC2101, PSYC2111, PSYC3203, PSYC3211, PSYC3101, PSYC3213, and PSYC4101.
   - 27 credits other Psychology courses including at least 6 credits in the core at the 4000 level in addition to 4101).
3. Area of Second Major - 36 credits
   - All from one science other than Psychology. If Math, then 6 credits of Math in the core will be replaced by a 6 credit Science elective.
4. Free Electives - 12 credits
5. An average of 65% in courses in area of first major in last three years of program.
6. An average of 60% in courses in area of second major in last three years of program.
7. An average of 60% over the entire 120 credit program.
8. Computer proficiency met with PSYC3101.

A degree with honours in the area of the first major and major in the area of the second major may be awarded where the additional requirements for the 4-year BSc degree with honours have been met.

STANDARD FOR PROFICIENCY IN COMPUTING

A student may satisfy the requirement for computer proficiency in the BSc in either of the following ways:

Option 1

Successful completion of a course of at least three credits devoted to a programming language in widespread use in scientific applications.

Option 2

Successful completion of one or more courses which provides instruction, including supervised laboratory experience, in a variety of software applications in widespread use in the scientific community. The list of applications covered should number at least three. Among acceptable applications are data analysis, computer algebra, database management, spreadsheet applications, web page design and presentation software. (This list is not to be regarded as exclusive, and can be expected to require periodic revision.) While the course or courses may also include brief introductions to word processing, email and Internet applications, appropriate to the intended audience, this introductory material will not satisfy the requirements above.

Note: Option 2 is not available to students whose subject of concentration is Mathematics. Students who have significant computing experience from other programs, work experience, private study or other non-traditional sources, will receive appropriate consideration and will not be unreasonably required to take further courses in this area. The Department of Mathematics, Physics and Geology will have a special responsibility for establishing and maintaining access to an assessment procedure for students claiming credit for such computing experience.

Bachelor of Science Community Studies

Admission Requirements

Required: Five Grade 12 advanced or academic courses including English; two Sciences (one of which must be Biology, Chemistry, or Physics); and Mathematics or pre-calculus Mathematics with an overall average of at least 60%.
Recommended: Pre-calculus Mathematics.

Students may substitute one open course for one advanced or academic course except where a particular course is specified. Environmental Science 12 may be used as the second science with Biology, Chemistry or Physics.

The four-year Bachelor of Science Community Studies program requires the successful completion of 20 courses (120 credits) including eight core curriculum courses (48 credits), seven area of concentration courses (42 credits), and five elective courses (30 credits). Students must also complete two work placements (voluntary or paid and each at least 120 hours); these do not count as credit courses in the BScCS.

It is strongly recommended that students contact CBU's Student Advisors to discuss their two work placements within the first year of their program.

CORE

Courses in the core must include the following Community Studies (COMS) courses:
COMS1100 Analysis and Decision Making (6 credits)
COMS2100 Applied Research (6 credits)
COMS3100 Community Intervention (6 credits)

Other courses in the core must satisfy the following topic and credit requirements:

1. Science and technology perspectives (6 credits)
   Recommended: PHIL2222 or equivalent
2. World views and values (3 credits)
   Recommended: PHIL1127 or equivalent
3. Aboriginal perspectives (3 credits)
   Recommended MIKM at 1000 or 2000 level or equivalent
4. Business perspectives (3 credits)
   Recommended: MGMT1601, MRKT1301 or equivalent
5. Public communication (3 credits)
   Recommended: COMM1103 or COMM1105
6. Effective writing (6 credits)
   Recommended: two of ENGL1101, 1103, 1105 or, ENGL1111 and 1113 or equivalent
7. Computer literacy (3 credits)
   Recommended: PHIL1103, COMP1163, MGSC2101 or equivalent
8. Statistics (3 credits)
   Recommended: MATH1109, MGSC1108, PSYC2101 or equivalent

Please contact either the Dean of Science and Technology or the Dean of Arts and Social Sciences for information on topic equivalents.

SCHOOL OF SCIENCE AND TECHNOLOGY

AREA OF CONCENTRATION

Courses in the area of concentration must include 18-24 credits from those deemed to be university sciences and six to eight term courses from those deemed to be technology. Overall, at least 15 credits must be at or beyond the 3000 level, including at least six at the 4000 level. The particular courses that make up an area of concentration are mandatory, with their identity varying according to the specific area of concentration in question.

STUDENT'S ELECTIVES

The student's electives allow a student to take courses that will customize his or her academic experience to best suit his or her particular interests upon graduation. Course possibilities include all academic offerings at CBU, but choices made by each student must be approved by a dean or designated faculty member to ensure they appropriately complement a student's interests and/or program integrity. Five courses (30 credits) are required. Possibilities also exist for a student to receive a maximum of one year of accreditation for community college transfer or prior learning assessment (PLA), interested individuals should check with the Student Service Centre or Dean's office.

WORK PLACEMENTS

The two required work placements must be arranged in consultation with a dean or a designated faculty member. These placements are over and above the 120 credits required to complete the program. CBU's Student Advisors, located in the Student Life Centre, will help arrange work terms and co-op placements for other degree and diploma programs, and will also provide assistance.

GRADUATION ELIGIBILITY

A student requires an overall average of 60% to be eligible to graduate from the Bachelor of Science Community Studies.

Concentration in Biodiversity

A concentration in Biodiversity requires successful completion of the following courses:

1. Biology - 24 credits
   - BIOL1101 Cell & Molecular Biology I
   - BIOL1601 Organismal & Evolutionary Biology
   - BIOL2501 Environmental Biology
   - BIOL3331 Plant Taxonomy
   - BIOL3541 Plant Ecology
   - BIOL3501 Natural History of Cape Breton
   - BIOL4505 Monitoring Biodiversity
   - 3 credits of BIOL in Ecology or Organismal Biology or MSIT3105
2. Technology - 18 credits
   - Environmental issues: one of ENVI3131/3133 - Environmental Impact Assessment, ENVI3134/3135 - Management of Technological Change or ENVI3136/3137 - Engineering for Sustainable Development
   - GEOL1103/1203 Physical Geology
   - CIVI 215/216 Introduction to & Applications of GIS

Concentration in Psychology, Health, and Environment

The Bachelor of Science Community Studies area of concentration in Psychology, Health and Environment is an interdisciplinary work and study program with practical integration of the related disciplines of community and environmental psychology, community development, health promotion, adult education, public health and environmental health. The concentration (PHE) applies theories of psychology and related sciences to understanding and modifying the complex social forces that influence individual and community health and well being. Students taking the concentration in Psychology, Health and Environment will graduate with the knowledge and skills necessary to address community health issues with the option of pursuing further study in graduate-level programs.

SCHOOL OF SCIENCE AND TECHNOLOGY

The core of the program combines selected courses from Psychology and Environmental Health technology. The flexibility for the choice of electives within the degree, allows students to tailor their course selection toward their future goals, such as careers in health promotion, addictions counselling, health administration or child/adolescent health. By choosing an appropriate set of electives, in consultation with members of the Departments of Biology and Psychology, graduating students will gain a unique perspective on issues related to health and wellness. The work experience gained as part of the BScCS will assist students in making career choices. As Canada's heath care system moves toward emphasis on preventing illness, it is necessary to understand the origins of essentially self-destructive behaviour and to take steps to promote healthy living within communities. The following are required courses within the PHE concentration:

REQUIRED PSYCHOLOGY/BIOLOGY COURSES

PSYC1100	Introduction to Psychology
PSYC2111	Research Methods in Psychology
PSYC3203	Learning
PSYC2251	Drugs and Behaviour
and either PSYC4231 or	Neurobiology
BIOL1101	Cell and Molecular Biology I
BIOL1601	Organismal and Evolutionary Biology
BOIL2501	Environmental Biology

REQUIRED TECHNOLOGY COURSES

PUBH2103	Environmental Health Law
PUBH2104	Anatomy and Physiology
PUBH3103	Public Health Administration
PUBH3106	Epidemiology
PUBH4106	Environmental Education
ITEC1504	Information Systems

BScCS Concentration in Toqwa'tu'kl Kjijitaqnn/Integrative Science

Students wishing to enroll in this program must consult the Academic Vice Principal of Unama'ki College, the Chair of the Department of Indigenous Studies, the Dean of Science and Technology, the Dean of Arts and Social Sciences or the Student Service Centre for detailed program information.

PROGRAM DESCRIPTION

Toqwa'tu'kl Kjijitaqnn requires successful completion of 120 credits plus two work placements in a science or science related environment. The overall degree structure consists of four parts and each part was designed to provide opportunities to learn science.

Toqwa'tu'kl Kjijitaqnn requires successful completion of the following courses:

1. ***Core*** (science via small group topic choice in **Community Studies** courses)
   - COMS1100 Analysis and Decision Making (6 credits)
   - COMS2100 Applied Research (6 credits)
   - COMS3100 Community Intervention (6 credits)
   - Other courses in the core must satisfy the following topic and credit requirements:
   - Science and technology perspectives (6 credits) Recommended: PHIL 2222, or equivalent
   - World views and values (3 credits) Recommended: PHIL 1127 or equivalent
   - Aboriginal perspectives (3 credits) Recommended MIKM at 1000; 2000 or 3000 level

2. **Concentration**
   Science - 24 credits
   - MSIT1101/1103 Sense of Place, Emergence & Participation

- MSIT2101/2103 Ways of Knowing
- MSIT3101/3103 Cycles & Holism
- MSIT4101/4103 Wholeness

Technology 18 credits

- CHEM1104/1105
- 6 credits from MATH1107/1208, or PHYS1102
- 3 credits from GEOL1103, PUBH2103, PUBH2105 OR
- 3 credits from PUBH3101, PUBH3103, PUBH4106, or PUBH4111.

3. Electives (science via student's choice)

4. Work Placements (science via on-the-job experience)

Note: Changes to technology component are currently under review.

ELECTIVES in MSɬT
MSIT courses may be used as electives within the BSc, BA, BACS and BBA degrees.

The Integrative Science courses were created for Toqwa'tu'kl Kjijitaqnn, to involve concurrent delivery of the Mi'kmaw world view and modern Western science, integrated at all levels. Their designation as MSɬT (from the Mi'kmaw word MSɬT, which means "everything together") refers to the holistic pedagogy which underpinned their creation, namely that education must utilize the whole mind while emphasizing relationships among the different dimensions of a human, between humans and nature and in nature. The common ground throughout all courses is "relationship", with attention paid to the understanding that a profound knowledge of relationships in nature was, and is, reflected in Mi'kmaw language and legends.

MSIT1101/1103 and 2101/2103 are required in the first year. They provide students with the foundations needed to pursue further studies in modern science and to complement these foundations with understandings from the Aboriginal way of knowing. As such, they explore select aspects of the Mi'kmaw language and world view, current scientific thinking on consciousness, the major and unifying theories in natural science (cosmology, physics, chemistry, geology, biology), and the overall theoretical framework of modern natural science. MSIT1101/1103 emphasize the internal human environment, and MSIT2101/2103 the external human environment.

MSɬT3101/3103 are required in third year; they explore cyclical and transformational dynamics of natural phenomena, both internal and external.

MSɬT4101/4103 are required in fourth year; they explore wholeness and the health, disease, and healing dynamics of natural phenomena, both internal and external.

Additional, optional organism and ecosystem (biodiversity) MSɬT courses exist at second and subsequent year levels. These are MSɬT211, MSɬT221, MSɬT231, MSɬT241, MSɬ 251 and MSɬT3105, and would be taken as student electives in the BScCS Toqwa'tu'kl Kjijitaqnn.

Note: MSɬT courses are open to all students, regardless of program or ethnicity. For purposes other than the BScCS Toqwa'tu'kl Kjijitaqnn, MSɬT1101, MSɬT1103, MSɬT2101, MSɬT2103, MSɬT3101, MSɬT3103, MSɬT4101, and MSIT4103 have been designated as science; MSɬT211, MSɬT231, MSɬT241, MSɬT251, and MSɬT3105 as Biology, and MSɬT221 as Geology.

Bachelor of Technology (Emergency Management)

Admission Requirements

This post-graduate program is open to students who have completed a diploma or degree in Environmental Technology or a diploma or degree in Public Health. Students who have completed another diploma or degree will be considered on an individual basis.

The BTech (Emergency Management) degree is designed to teach the student scientific methods to be applied to the problems of forecasting and dealing with natural and man-made emergencies. Students will develop critical thought through discussion and a discursive system of presentation. The human element is stressed, as well as the physical and management services. There is emphasis on the understanding of emergency preparedness as a form of environmental protection and control.

Students completing the program will be equipped to perform the duties of an Emergency Manager/Disaster Planner in a number of contexts. They will qualify for national designation, which is awarded by the International Association of Emergency Managers and the Disaster Recovery Institute.

The degree consists of seven, six credit courses (42 credits). These courses will be delivered via distance education, with workshops and laboratories being held at various locations as needed. Courses cover material considered essential to the understanding of disaster management and risk assessment and provide academic recognition for emergency managers and related professionals.

REQUIRED COURSES

EMGN4100 Introduction to Disaster Management
EMGN4102 Disaster Preparedness and Response
EMGN4110 Business & Industry Crisis Management and the Use of Technology in Emergency Management
EMGN4112 Hazardous Materials Management and Hazards Mitigation
EMGN4120 Operational Recovery
EMGN4122 Management of Public Emergencies/Practice and Procedure for the Incident Commander
EMGN4130 Terrorism and Emergency Management

Graduation Requirement: No mark below 50% in each of the seven courses with an overall average of at least 65%.

Bachelor of Engineering Technology (Electronics & Controls)

This degree program combines theoretical principles with hands-on experience and technical courses related to electronics, instrumentation and computer control industry. Aspects unique to electrical engineering, analog/digital design, industrial instrumentation/control, microelectronics and wireless systems are emphasized.

The Bachelor of Engineering Technology (Electronics & Controls) degree is normally a three year (six academic term) program. Students wishing to start their careers early may choose to graduate with the Electrical Engineering Technology (Instrumentation and Controls) Diploma after successfully completing terms one to four.

Admission Requirements

High School Graduates: Five Grade 12 advanced or academic courses including English and Mathematics, and two other sciences (Physics is recommended); with an overall average of at least 60%.

Diploma/Degree Graduates: Appropriately accredited community college diploma at the technologist level or university science degree in electrical/electronics and closely related programs only. CBU has agreements with many colleges which specifies the matching programs and, in some cases, matching courses that allow transfer credits.

Partially Completed Diploma/Degree: Admissions and course selection will be done on an individual basis in consultation with an academic advisor from the Engineering Department.

SCHOOL OF SCIENCE AND TECHNOLOGY

THREE -YEAR FORMAT

Term One (Fall)

MATH1107 Math I
PHYS1101 Elements of Physics I
ENGI1161 Industrial Safety and Applied Shop Practices
ENGI1165 Engineering Graphics
ELEC1161 Fundamentals of Electricity I
COMP1163 Computer Applications

Term Two (Winter)

MATH1208 Math II
PHYS1201 Elements of Physics II
DRAF1163 Industrial Applications of Drafting
COMM Elective
ELEC1164 Fundamentals of Electricity II
ELEC1165 Analog Electronics

Term Three (Fall)

MATH2104 Math III
ENGI2167 Digital Logic
ELEC2160 Process Measurements (This is a two-term course taken in one term with double the contact hours)
ELEC2166 Industrial Electronic Circuits
ELEC2167 Machines and Controls
MATH1109 Statistics (Can be taken in term three or four)

Term Four (Winter)

MATH2205 Math IV
ELEC2163 Linear Integrated Circuits
ELEC2168 Programmable logic Controllers
ELEC2169 Technological Thesis
ELEC2162 Control Systems (This is a two-term course taken in one term with double the contact hours)

Students wishing to start their careers early may choose to graduate with a diploma in Electrical Engineering Technology (Instrumentation and Controls) after successfully completing all courses to this point.

Term Five (Fall)

ELEC2165 Signals & Controls
ELEC3163 Digital Signal Processing
ELEC3164 Microelectronic Design Tools
ELEC3737 Selected Topics
MATH1116 Intro to Computing with C++

Term Six (Winter)

ENGI2101 Engineering Economics
MATH1206 Differential and Integral Calculus **or** ENGI1168 (Fluid Mechanics/Hydraulics)
or MGSC1109 (Calculus for Business)
ELEC3161 Embedded Operating Systems
ELEC3165 Applied Integrated Circuit Systems
ELEC3166 Applied Wireless Systems or ELEC3167 (Medical Instrumentation)

Transfer Credit: CBU has an agreement with many colleges which results in transfer credit being given to specified Engineering Technology Diploma graduates, such that as few as 36 credits from CBU would be required to complete the

BET Degree program. Prospective students are encouraged to contact their college for information on the agreement with CBU, or contact CBU directly. Where no agreement exists, individual consideration will be given to possible transfer credits. In any case, however, residency requirements must still be met.

CBU has an agreement with the NSCC that allows entry into year two of the Electrical Technology Diploma Program for graduates of related Technician programs. Prospective students are encouraged to contact their college for information on the agreement with CBU or to contact CBU directly.

Electives: Selection of all electives must be done through prior consultation with a faculty advisor from the program.

Residence Requirements: Graduation with the degree (or diploma) normally requires that the student take a minimum of 50% of the program's required courses from CBU. CBU distance courses can be included to meet the residency requirements. Some joint programs, such as the articulation agreements previously noted in the Transfer Credit section, may allow special circumstances which differ from this minimum.
Graduation Requirement: In the three year degree or two year diploma formats, a minimum of all courses in the program (or approved equivalent) must be completed to be eligible for graduation. Graduation with a co-op designation requires successful completion of a minimum of two co-op work terms.

Note: sequencing of some courses may be different from the formats shown.

Bachelor of Engineering Technology (Environmental Studies)

This degree program combines theoretical principles with the hands-on experience and technical courses related to the understanding of biological, chemical, geological and engineering principles applied to the environment. Aspects unique to assessment of the quality of air, water and soil; the management of pollutants and waste products and sustainable development are emphasized. The Bachelor of Engineering Technology (Environmental Studies) Degree is normally a three year (six academic term) program.

Graduates from this program have successful careers in engineering consulting, with all levels of government and industry and in various public corporations.

Admission Requirements

High School Graduates: Five Grade 12 advanced or academic courses including English, Mathematics and two sciences (Physics and Chemistry are recommended, with an overall average of at least 60%). Environmental Science 12 may be used as the second science with biology, chemistry or physics.

Diploma/Degree Graduates: Appropriately accredited community college diploma at the technologist level or university science degree, where the programs are a reasonable match. CBU has agreements with many colleges which specify the matching programs and, in some cases, matching courses that allow transfer credits.

Partially Completed Diploma/Degree: Admissions and course selection will be done on an individual basis in consultation with an academic advisor from the Engineering Department.

THREE-YEAR FORMAT

Term One (Fall)

MATH1107	Math I
PHYS1101	Elements of Physics I
ENGI1161	Industrial Safety and Applied Shop Practices
ENGI1165	Engineering Graphics
CHEM1104	General Chemistry I
PUBH1101	Cell Processes and Environmental Effects

Term Two (Winter)

MATH1208	Math II

PHYS1201 Elements of Physics II
ENGI1168 Fluid Mechanics
CHEM1105 General Chemistry II
PUBH2101 Municipal Services
DRAF1163 Industrial Applications of Drafting

Term Three (Fall)
COMP1163 Computer Applications
BIOL2501 Environmental Biology
MICR2101 Introductory Microbiology
COMM Elective
MATH1109 Introductory Statistics
GEOL2101 Engineering Geology

Term Four (Winter)
CHEM2404 Environmental Chemistry
GEOL3101 Hydrogeology
ENVI2161 Air Pollution
PUBH4109 Waste Management
MICR3103 Environmental Microbiology
ENVI2163 Occupational Hygiene

Term Five (Fall)
ENVI3131 Environmental Impact Assessment I
ENGI2133 Environmental Engineering, or
ENVI3136 Engineering for Sustainable Development I
ENVI3831* Environmental Research Project
ENVI3138 Environmental Auditing
XXX Elective
XXX Elective

Term Six (Winter)
ENGI2101 Engineering Economics
PUBH4101 Risk Assessment in Public Health
ENVI3133 Environmental Impact Assessment II
ENVI3137 Engineering for Sustainable Development II
ENVI3831* Environmental Research Project
PUBH4107 Quality and Environmental Project Management

* (A three credit course taken over two academic terms)
Courses in terms five and six, as well as some electives, may be taken by distance (online).

Transfer Credit: CBU has an agreement with many colleges which results in transfer credit being given to specified Engineering Technology Diploma graduates, such that as few as 36 credits from CBU would be required to complete the BET Degree program. Prospective students are encouraged to contact their college for information on the agreement with CBU or to contact CBU directly. Where no agreement exists, individual consideration will be given to possible transfer credits. In any case, however, residency requirements must still be met.

Electives: Selection of all electives must be done through prior consultation with a faculty advisor from the program.

Residence requirements: Graduation with the degree (or diploma) normally requires that the student take a minimum of 50% of the program's required courses from CBU. CBU distance courses can be included to meet the residency requirements. Some joint programs, such as the articulation agreements previously noted in the Transfer Credit section, may allow special circumstances which differ from this minimum.

Graduation requirement: For this three year program, a minimum of all courses in the program (or approved equivalent) must be completed to be eligible for graduation.

Note: Sequencing of some courses may be different from the formats shown above.

Bachelor of Engineering Technology (Manufacturing)

This degree program combines theoretical principles with the hands-on experience and technical courses related to the manufacturing industry. Aspects unique to mechanical engineering, design, materials properties, machines/robotics, along with quality, cost and human factors in manufacturing operations are emphasized. The program is available in a three year format.

The extraordinary quality of this program was nationally recognized for innovation by the 2003 Yves Landry Award, as Canada's Top Manufacturing Program.

Admission Requirements

Currently, applications will be accepted into the Manufacturing stage only, with the successful completion of an acceptable Technology diploma.

PLEASE NOTE THAT THE MECHANICAL ENGINEERING TECHNOLOGY DIPLOMA PROGRAM IS CURRENTLY UNDER REVIEW. INTERESTED STUDENTS SHOULD CONTACT THE ENGINEERING DEPARTMENT FOR FURTHER INFORMATION. THE BACHELOR OF ENGINEERING TECHNOLOGY DEGREE (MANUFACTURING) REMAINS AVAILABLE TO GRADUATES OF ACCEPTABLE TECHNOLOGY DIPLOMA PROGRAMS.

High School Graduates: Five Grade 12 advanced or academic courses including English and Mathematics and two sciences; (Physics is recommended) with an overall average of at least 60%.

Diploma/Degree Graduates: Appropriately accredited community college diploma at the technologist level or university science degree, where the programs are a reasonable match. CBU has agreements with many colleges which specifies the matching programs and, in some cases, matching courses that allow transfer credits. Contact the department for details.

Partially Completed Diploma/Degree: Admissions and course selection will be done on an individual basis in consultation with an academic advisor from the Engineering department.

THREE-YEAR FORMAT

Term One (Fall)

MATH1107	Math I
PHYS1101	Elements of Physics I
ENGI1161	Industrial Safety and Applied Shop Practices
ENGI1165	Engineering Graphics
ENGI1163	Statics
COMP1163	Computer Applications

Term Two (Winter)

MATH1208	Math II
PHYS1201	Elements of Physics II
ENGI1168	Fluid Mechanics
ENGI1166	Dynamics
ENGI1164	Strength of Materials
DRAF1163	Industrial Applications of Drafting

Term Three (Fall)

MATH2104	Math III
COMM	Elective
MECH2161	Thermodynamics
MECH2164	CAD/CAM I
MECH2167	Machine Design I
MECH2168	Heating Ventilation and Air Conditioning
MECH2133	Tools Fixtures and Gauging

Term Four (Winter)

MATH2205	Math IV
MECH2165	Metallurgy
MECH2166	Fluid Power
MECH2137	Geometric Tolerancing
MECH2169	Robotics/CIM
MECH2134	Machine Design II

Students wishing to start their careers early may choose to graduate with the Mechanical Engineering Technology Diploma after successfully completing all courses to this point.

Term Five (Fall)

MANF3133	Statistical Process Control
MANF3134	Manufacturing Processes and Standards
MANF3135	Production Cost Control
XXX	Recommended Elective
XXX	Recommended Elective

Term Six (Winter)

MANF3131	Total Quality Management
MANF3136	Competitive Manufacturing Studies
MANF3137	People in Manufacturing
MANF3138	Product Synthesis
XXX	Recommended Elective

ONE -YEAR POST-DIPLOMA FORMAT

For Diploma graduates of CBU, or of institutions that have an articulation agreement with CBU, completion of terms five and six is required.

Transfer Credit. CBU has an agreement with many colleges which results in transfer credit being given to specified Engineering Technology Diploma graduates such that as few as 30 credits from CBU would be required to complete the BET Degree program. Prospective students are encouraged to contact their college for information on the agreement with CBU or contact CBU directly. Where no agreement exists, individual consideration will be given to possible transfer credits. In any case, however, residency requirements must still be met.

GRADUATION REQUIREMENT

Residence requirements: Graduation with the degree (or diploma) normally requires that the student take a minimum of 50% of the program's courses from CBU. CBU distance courses can be included to meet the residency requirements. Some joint programs, such as the articulation agreements cited in the Transfer Credit section, may allow special circumstances which differ from this minimum.

- Diploma in Mechanical Engineering Technology: Successful completion of terms one to four.
- Degree in Bachelor of Engineering Technology (Manufacturing): Successful completion of terms one to six.
- Electives: Selection of all electives must be done through prior consultation with a faculty advisor from the program
- Term five elective recommended: MATH1109 & COMM1105

Bachelor of Engineering Technology (Petroleum)

This degree program combines theoretical principles with the hands-on experience and technical courses related to the offshore petroleum industry. Aspects unique to exploration, drilling, and production operations in the marine environment are emphasized. The program is available in a three year format.

Admission Requirements

High School Graduates: Five Grade 12 advanced or academic courses including English, Mathematics and two other sciences; (Physics and Chemistry recommended) with an overall average of at least 60%.

Diploma/Degree Graduates: Appropriately accredited community college diploma at the technologist level, or university science degree, where the programs are a reasonable match. CBU has agreements with many colleges which specifies the matching programs and, in some cases, matching courses that allow transfer credits.

Partially completed diploma/degree: Admissions and course selection will be done on an individual basis in consultation with an academic advisor from the Engineering Department

THREE-YEAR FORMAT

Term One (Fall)

MATH1107	Math 1
PHYS1101	Elements of Physics I
ENGI1161	Industrial Safety and Applied Shop Practices
ENGI1165	Engineering Graphics
GEOL2101	Engineering Geology
COMP1163	Computer Applications

Term Two (Winter)

MATH1208	Math II
PHYS1201	Elements of Physics II
ENGI1168	Fluid Mechanics
PETR1161	Drilling Engineering
PETR1131	Petroleum Product and Processing
DRAF1163	Industrial Applications of Drafting

Term Three (Fall)

MATH2104	Math III
COMM	Elective
ENGI1163	Statics
PETR2161	Reservoir Engineering I
PETR2131	Marine Environment Protection, Safety and Loss Control
PETR2163	Petroleum Process Simulation
PETR2135	Production Engineering

Term Four (Winter)

MANF3131	Total Quality Management
PETR2731	Selected Topics
PETR2164	Advanced Process Simulation
PETR2134	Materials and Equipment Design
PETR2165	Senior Petroleum Project
ELEC2168	Programmable Logic Controllers

Students wishing to start their careers early may choose to graduate with the Petroleum Engineering Technology Diploma after successfully completing all courses to this point.

Term Five (Fall)

ENGI2101	Engineering Economics
PETR3131	Management of Technological Innovation I
PETR3163	Process Control and Optimization Systems
PETR3133	Project Design and Evaluation Techniques
PETR3134	Codes and Specifications in the Petroleum Industry

Term Six (Winter)

PETR3164	Distributed Control Systems and PLC
PETR3161	Management of Technological Innovation II
MECH2166	Fluid Power
XXX	Ethics Elective
XXX	Chemistry Elective

Substitution: Note that ELEC2160 may be selected in place of both PETR3163 and one elective.

Transfer Credit: CBU has an agreement with many colleges which results in transfer credit being given to specified Engineering Technology Diploma graduates, such that as few as 36 credits from CBU would be required to complete the BET Degree program. Prospective students are encouraged to contact their college for information on the agreement with CBU or contact CBU directly. Where no agreement exists, individual consideration will be given to possible transfer credits. In any case, however, residency requirements must still be met.

Electives: Selection of all electives must be done through prior consultation with a faculty advisor from the program.

Residence requirements: Graduation with the degree (or diploma) normally requires that the student take a minimum of 50% of the program's required courses from CBU. CBU distance courses can be included to meet the residency requirements. Some joint programs, such as the articulation agreements previously noted in the Transfer Credit section may allow special circumstances which differ from this minimum.

Graduation requirement: In the three year program, a minimum of all courses in the program (or approved equivalent) must be completed to be eligible for graduation. Graduation with a co-op designation requires successful completion of a minimum of two co-op work terms.

Note: Sequencing of some courses may be different from the formats shown above.

Bachelor of Engineering Transfer Program (Engineering Diploma)

Admission Requirements

Required: Five Grade 12 advanced or academic courses including English; Physics; Mathematics; and one of Biology, Chemistry, or Geology with an overall average of at least 60%. **Pre-calculus Mathematics 12 is recommended.**

Students may substitute one open course for one advanced or academic course except where a particular course is specified.

The Engineering transfer program is offered at CBU on an associate basis with Dalhousie University. CBU is one of the few associated universities to offer the first two years of all eight engineering disciplines which include; Chemical, Civil, Electrical & Computer, Environmental, Industrial, Mechanical, Material and Mineral Engineering.

The first year of the program is common for all eight discipline options. At the end of the first year the student must make a decision on a specialty. Application is made at this time to both CBU and Dalhousie for a seat in the particular discipline of choice.

During year two, the student is registered at both CBU and Dalhousie University. Providing the student satisfies the conditions in the acceptance letter at CBU for the specific year two discipline, continuation at Dalhousie University for year three of the four-year program is guaranteed.

SCHOOL OF SCIENCE AND TECHNOLOGY

Engineering program regulations require students to have a minimum average of 60% for the academic year. Engineering students receiving academic year averages of less than 60% are not able to use those courses with grades below 60% towards the BEng Degree.

Students in all Engineering options are required to write the Calculus Readiness Test for entry into the required MATH 1105 or MATH1101 course (See Calendar of Events).

Students should also be aware that a BSc in either Chemistry or Mathematics could be combined with the Engineering Diploma. This program requires three years of study at CBU, followed by two years at Dalhousie University.

YEAR 1 (Commencing 2010-11)

COURSES REQUIRED (FOR ALL OPTIONS)

CHEM1104	General Chemistry I
CHEM1105	General Chemistry II
ENGI1165	Engineering Graphics
ENGI1167	Engineering Statics
ENGI2169	Strength of Materials
[1]MATH	(MATH1105/1206 or [2]'MATH1101/1203/1206)
MATH1116	Introduction to Computing with C++
PHYS1104	General Physics I
PHYS1204	General Physics II
XXX	Humanities Elective (Writing Course) (3 credits)

Notes:

[1]The Calculus Readiness Test must be written prior to MATH1105 or 1101 registration to determine the appropriate Math stream.
(See Calendar of Events in the CBU Academic Calendar for test dates.)
MATH1105/1206 is Differential and Integral Calculus I & II.
MATH1101/1203 is Calculus with Elementary Functions and Geometry I & II.

ENGINEERING DIPLOMA, YEAR 2 (Commencing 2011-12)

COURSES REQUIRED (For all options) Biology (consult with Engineering Faculty)

ENGIXXX	Thermo-Fluid Engineering I
ENGI2166	Engineering Electric Circuits
ENGIXXX	Environmental Science I
ENGI2135	Engineering Design/Graphics
MATH1204	Introduction to Matrix Algebra
MATH2106	Elementary Mathematical Statistics I
MATH2208	Differential Equations I
MATH2109	Multi-Variant Calculus
XXX	Elective (Writing Course)

PLUS 3 DISCIPLINE SPECIFIC COURSES AS INDICATED BELOW:

CHEMICAL, ENVIRONMENTAL AND MATERIALS ENGINEERING

CHEM2301	Introductory Organic Chemistry I
ENGI2165	Fundamentals of Chemical Engineering

ENGI2133 Environmental Engineering

CIVIL ENGINEERING

ENGI2163 Dynamics
ENGIXXX Thermo-Fluid Engineering II
GEOL2101 Engineering Geology

ELECTRICAL ENGINEERING

ENGI2101 Engineering Economics
ENGI2167 Engineering Digital Logic
ENGI2168 Circuit Analysis

INDUSTRIAL ENGINEERING

ENGI2101 Engineering Economics
ENGI2163 Dynamics
ENGI2133 Environmental Engineering

MECHANICAL ENGINEERING

ENGI2101 Engineering Economics
ENGI2163 Dynamics
ENGIXXX Thermo-Fluid Engineering II

MINERAL RESOURCES ENGINEERING

ENGI2101 Engineering Economics
ENGI2133 Environmental Engineering
GEOL2101 Engineering Geology

Bachelor of Computer Science (Transfer)

CBU offers the first year of study toward the Bachelor of Computing Science degree to be completed either at Dalhousie or Acadia University.

Admission Requirements

Required: Five Grade 12 advanced or academic courses including English; Mathematics; one of Biology, Chemistry, Geology or Physics; with an overall average of at least 60% and an average of at least 75% in both Mathematics and science. **Pre-calculus mathematics 12 is recommended.**

Students may substitute one open course for one advanced or academic course except where a particular course is specified.

All students in this program are required to write the Calculus Readiness Test.

Students transferring to either Dalhousie or Acadia will take MATH1105 (or MATH1101 and MATH1203), MATH1116 and MATH1217.

In addition:

- students transferring to Dalhousie will take English 100 or 1600 (6 credit); 6 credits in lab science; either MATH1204 or 1206; and 6 credit electives, chosen from 3 credit Business or Economics, 3 credit Humanities or Social Science, or 6 credit Communication;
- students transferring to Acadia will take MATH1204 and 18 credit electives.

An average of 60% with no mark below 60% in courses to be transferred into the program is required for admission to second year in Computer Science.

For details of the Chemical Processes and Electronics options at Dalhousie, students should consult the calendar of that university.

Other Science Programs

A student is able to complete one or two years of a BSc program at CBU in Geology and Physics and a combined BSc in a science and Business.

Most universities require an initial degree (not necessarily in science) for entry into medicine or architecture. The courses required for admission to pharmacy, veterinary science, dentistry and physiotherapy may be available at CBU. Students should consult the appropriate university for exact requirements.

Combined Programs

All students in any of the following programs are required to write the Calculus Readiness Test.

BSc in Mathematics jointly with the Engineering Diploma

The three-year BSc degree in Mathematics can be combined with any option in the Engineering program, enabling the student to earn two degrees (BSc and BEng) in five years of study, three at CBU and two at Dalhousie. Where courses are listed specifically, they are required for one or both programs. Some changes can be made in the order of electives and core courses and in the division of 2000-level Engineering courses between years two and three.

YEAR ONE (combined with all Engineering Diploma options except Chemical)
ENGI1165/1167
MATH1105/1206 (or 1101/1203/1206)
MATH 1116
PHYS1104/1204
ENGL 100 or 1600
2000-level Philosophy 3 credit free elective

YEAR ONE (combined with Engineering Diploma, Chemical)
ENGI1165/1167
MATH1105/1206 (or 1101/1203/1206)
MATH1116
CHEM1104, CHEM1105
PHYS1104/1204
ENGL 100 or 1600

YEAR TWO (combined with Engineering Diploma, Biological)
MATH2101
MATH2109/2208
MATH2106/1204
BIOL1101/1601
CHEM1104, CHEM1105
ENGI2101
ENGI2169 or GEOL1101/1201
3 credit free elective

YEAR THREE (combined with Engineering Diploma, Biological)

6 credits Mathematics at 3000 level or above
MATH2103
PHIL2222, or 3 credit Humanities plus 3 credit Philosophy
ENGI2164/2131
ENGI2166/
6 credit Social Science core requirement

YEAR TWO (combined with Engineering Diploma, Chemical)
MATH2101
MATH2109/2208
MATH2106/1204
CHEM2301/
ENGI2133/2131
6 credit Social Science elective

YEAR THREE (combined with Engineering Diploma, Chemical)
6 credits Mathematics at 3000 level or above
MATH2103
PHIL2222
ENGI2164/2165
ENGI2166
6 credits free elective

YEAR TWO (combined with Engineering Diploma, Civil or Industrial)
MATH2101
MATH2109/2208
MATH2106/1204
CHEM1104, CHEM1105
ENGI2101
ENGI2163
3 credit free elective

YEAR THREE (combined with Engineering Diploma, Civil)
6 credits Mathematics at 3000 level or above
MATH2103
PHIL2222
ENGI2164/2131
ENGI2166
6 credit Social Science core requirement
Technical Communication

YEAR THREE (combined with Engineering Diploma, Industrial)
6 credits Mathematics at 3000 level or above
MATH2101
MATH2103
PHIL2222
ENGI2164
ENGI2166
3 credits free elective (preferably in winter term)
Technical Communication

YEAR TWO (combined with Engineering Diploma, Electrical)
MATH2101
MATH2109/2208

MATH2106/1204
CHEM1104, CHEM1105
ENGI2167
ENGI2166/2168
3 credit free elective

YEAR THREE (combined with Engineering Diploma, Electrical)
6 credits Mathematics at 3000 level or above
MATH1217
MATH2103/2211
PHIL2222
ENGI2164/2135
6 credit Social Science core requirement

YEAR TWO (combined with Engineering Diploma, Mechanical or Mining)
MATH2101
MATH2109/2208
MATH2106/1204
CHEM1104, CHEM1105
ENGI2101/2169
ENGI2163
3 credit free elective

YEAR THREE (combined with Engineering Diploma, Mechanical or Mining)
6 credits Mathematics at 3000 level or above
MATH2103
PHIL2222
ENGI2164/2131
ENGI2166/2135
6 credits Social Science core requirement

YEAR TWO (combined with Engineering Diploma, Metallurgical)
MATH2101
MATH2109/2208
MATH2106/1204
CHEM1104, CHEM1105
ENGI2101/2169
ENGI2135
3 credit free elective

YEAR THREE (combined with Engineering Diploma, Metallurgical)
6 credits Mathematics at 3000 level or above
MATH2103
PHIL2222
ENGI2164/2131
ENGI2166/2133
6 credits Social Science core requirement

Caution: Because of prerequisite arrangements in Mathematics, MATH1204 must be taken no later than the fourth semester. It is therefore NOT generally possible to complete the standard Engineering diploma, then spend an additional year to earn a BSc, in areas that require MATH1204.

BSc Chemistry with Engineering

In three years of study a student may satisfy the requirements for the BSc with specialization in Chemistry, as well as for the transfer program in Engineering.

Year One
MATH1105 (or 1101, 1203), 1206, 1116
CHEM1104, CHEM1105
PHYS1104, 1204
ENGI1165, 1167
ENGL 6 credits English at 1000 and /or 2000 level

Years Two and Three
MATH1204, 2106, 2208, 2109
CHEM2201, 2203, 2301, 2303 2401, 2501, 2403
ENGI2164, 2165, 2166, 2131, 2133
HUMA 3 credits
PHIL2222, or 3 credit Humanities plus 3 credit Philosophy
Social Science - 6 credits

BSc in Mathematics with Computing Science

Only year one of Computer Science is offered.

YEAR ONE
MATH1105 (or 1101, 1203), 1206 (*), 2101, 1204, 1116, 1217
6 credits English at 1000 and/or 2000 level
One full course equivalent in a Science other than Mathematics

YEAR TWO
MATH2103, 2109/2208, 6 credits further in MATH
HUMA 3 credits
One semester of close cognates (MATH2211 recommended)
One full course equivalent in a Science other than Mathematics
One full course equivalent in the Social Sciences
(see NOTE below)

YEAR THREE
Three semesters of close cognate courses
Two semesters of Mathematics at the 3000-level or above
PHIL2222
One full course equivalent in a Science other than Mathematics
One full course equivalent in an Arts subject
MATH2211 and one of MATH1109 or MATH2106 should be included.

All students in this program are required to write the Calculus Readiness Test. In Bachelor of Computer Science, BSc (Mathematics) with Engineering or Computer Sciences and BSc (Chemistry) with Engineering, students entering with Mathematics 12 (academic) from Grade 12 or who do not meet the required standard on the required Calculus Readiness Test, should substitute MATH1101 and 1203 for 1105 and expect to complete MATH1206 at spring session after the first year.

Diploma Programs

Some of the Bachelor of Engineering Technology Programs in the School of Science and Technology allow a diploma exit point for students who wish to enter the workforce prior to completing their degree. Diplomas are offered in Electrical Technology (Electronics and Controls), Mechanical Engineering Technology and Petroleum Engineering Technology.

UNAMA'KI COLLEGE OF CAPE BRETON UNIVERSITY

LINDSAY MARSHALL, BA, - PRINCIPAL
ROD NICHOLLS, PHD – VICE PRINCIPAL ACADEMIC

Unama'ki College (formerly Mi'kmaq College Institute) of Cape Breton University strives to inform, research, teach and dialogue about the past and present realities of Aboriginal Nations, particularly, the Mi'kmaw First Nation. Unama'ki College provides, through its **Mi'kmaq Resource Center (MRC)** and **Mi'kmaq Language Lab**, exciting environments in which to participate in current projects and research involving collaboration with Indigenous peoples, locally, nationally and internationally. Aboriginal and non-Aboriginal students alike, are drawn to the College because of the opportunities afforded to students to participate in ongoing dialogues about contemporary Indigenous issues.

The full and part time faculty members of the Unama'ki College teach academic courses in **Mi'kmaq Studies** (language/culture; governance/history and linguistics) as well as in **MSIT / Integrative Science**. The Unama'ki College of Cape Breton University offers academic courses related to Aboriginal issues and language using three delivery methods:

1. Courses are delivered at the main CBU campus in Sydney;

2. Courses are delivered in First Nations communities by faculty who travel to communities;

3. Courses are delivered in First Nations communities, regardless of location, via video conferencing.

Go to www.cbu.ca/unamaki for up-to-date information on Unama'ki College.

Mi'kmaq Resource Centre (MRC)

Diane Chisholm, BA, Coordinator (902)563-1660

The Mi'kmaq Resource Centre is a repository of documents related to Mi'kmaq history, culture and language. The Centre houses books, doctoral theses, articles, reports, pamphlets and academic papers, as well as video and audio materials. The MRC's holdings also include the now defunct Mic Mac News, publications of the Royal Commission on Aboriginal Peoples, an extensive array of materials on Donald Marshall Jr.'s experiences in the justice system and papers related to Aboriginal issues donated by private sources.

The MRC has a small, though select, collection of items representing Mi'kmaq material culture over the past hundred years: examples of quill and beadwork, crooked knives, the waltes game, items from the early 20th century tourist trade, and a variety of baskets. Additionally, the Centre has a display of stone artifacts and projectile points on loan from the Nova Scotia Museum. Our oval room may be used by groups to give presentations or show videos related to Mi'kmaq culture.

The Mi'kmaq Resource Centre welcomes students, educators, researchers and anyone with an interest in Mi'kmaki to use our facilities and extensive collection of materials. Research assistance is available.

The Mi'kmaq Resource Centre is located in the Beaton Institute in room CE 268.

L'nui'sultimkeweyo'kom Mi'kmaq Language Lab

Stephanie Inglis, PhD, Director (902)563-1201; Lab: (902)563-1197

The Mi'kmaw Language Lab is the primary centre of research activity at Unama'ki College. The Lab has partnerships with numerous Mi'kmaw educational authorities as well as academic institutions and is engaged in several long term projects: Mi'kmaw pain words; the on-line talking Mi'kmaw dictionary as well as the on-line Mi'kmaw Language Center, known as JILAPTOQ www.jilaptoq.ca. The Language Lab engages and mentors Mi'kmaw undergraduate student researchers who

are interested in working on Mi'kmaw language projects. The Language Lab also attracts linguistic graduate students from other universities and academics from North America interested in linguistic work on Algonquian languages.

Indigenous Science Research Commons

The Integrative Science Research Commons is the primary centre of Indigenous Science research activity at Unama'ki College. The Integrative Science Research Commons is under the auspices of Dr. Cheryl Bartlett, Tier1 Canada Research Chair in Integrative Science. Integrated Science/MSɬT courses are taught using the Integrative Science Research Commons.

Indigenous Students Commons

One of the key and most visible spaces within Unama'ki College is the **Indigenous Students Commons** in all its various aspects: physical components (computers, kitchenette, etc.), academic ambiance (proximity to faculty and staff, study space, etc.) and comforting, reconfirming culture space.

DEPARTMENT OF INDIGENOUS STUDIES

Chair, Rod Beresford BSc, MSc

The Department of Indigenous Studies of Unama'ki College brings together full and part-time faculty members involved in the teaching and development of university courses within the disciplines of **Mi'kmaq Studies** and **Msit /Integrative Science**.

Mi'kmaq Studies as a discipline, examines aspects of Mi'kmaw culture including language, governance, spirituality and comtemporary social issues. It offers 22 courses within the discipline of Mi'kmaq Studies and the courses are organized into two main streams: 'language and culture' and 'governance and history'. Courses are open to all students enrolled at Cape Breton University. Students may obtain a BA/BACS Major or Minor in Mi'kmaq Studies or may simply wish to take a few courses as electives within the BA, BACS or BBA Degrees. Mi'kmaq Studies courses are often of interest to students who plan to pursue careers in Law, Medicine, Social Work, Teaching or Anthropology.

Integrative Science brings together scientific knowledge and ways of knowing from Indigenous and Western worldviews to provide science education. This "bringing knowledge together" is known as *Toqwa'tu'kl Kjijitaqnn* in the Mi'kmaq language and as "Two-Eyed Seeing" in the words of Mi'kmaq Elder, Albert Marshall. "Two-Eyed Seeing" is more than a label ... it is a powerful reminder of the Integrative Science program's visionary goal of learning to see from our one eye with the strengths of Indigenous knowledges and from our other eye with the strengths of mainstream scientific knowledges...and to use these together for the benefit of all. The Integrative Science program works to achieve such "Living Knowledge for the 21st Century" through learning opportunities in classrooms, laboratories, outdoors, community workshops and work placements. Bachelor of Science Community Studies (BScCS): Integrated Science/Toqwa'tu'kl Kjijitaqnn Cape Breton University, offers a unique Bachelor of Science Community Studies (BScCS) four year undergraduate degree, with a concentration in Integrative Science/Toqwa'tu'kl Kjijitaqnn**.**

Please see the School of Arts and Social Sciences for Mi'kmaq Studies Departmental Regulations.

Mi'kmaq Studies

1. BA/BACS: Concentration, Major and/or Minor (Mi'kmaq Studies)
2. Electives: BA/BACS/BBA (Mi'kmaq Studies)
3. BScCS: Concentration (Integrated Science/*Toqwa'tu'kl Kjijitaqnn*)
4. Electives: (MSɬT)
5. Mi'kmaq Studies as teachables for the BEd

MI'KMAQ STUDIES COURSES ASTEACHABLES FOR THE BEd

MI'KMAQ STUDIES courses are recognized as a teachable for application to Nova Scotia BEd Programs.

NOTE:

For purposes other than the BScCS Toqwa'tu'kl Kjijitaqnn, MSIT1101, MSIT1103, MSIT2101, MSIT2103, MSIT3101, MSIT3103, MSIT4101 and MSIT4103 have been designated as science;

THREE YEAR BA/BACS, CONCENTRATION in MI'KMAQ STUDIES

The three-year BA/BACS, concentration in Mi'kmaq Studies, requires completion of 15 courses (90 credits).

BA	**BACS**
5 core courses (30 credits)	4 core courses (24 credits)
5 electives (30 credits) any discipline	3 electives (18 credits) any discipline
5 courses (30 credits) in MI'KMAQ STUDIES	4 courses (24 credits) Career
	4 courses (24 credits) in MI'KMAQ STUDIES
(See following departmental requirements.)	(See following departmental requirements.)

CONCENTRATION IN MI'KMAQ STUDIES

MIKM11000 (6 credits)	Compulsory
MIKM1102 (6 credits)	Compulsory BA, Optional BACS
(6 credits) of MI'kmaq Studies at the 2000/3000 level*	Choice from language/culture
(6 credits) of Mi'kmaq Studies at the 3000/4000 level*	Choice from governance/history
MIKM4100 (6 credits)	Compulsory

*Students may not take 3000/4000 level courses without completing six credits at the 1000/2000 level.

4-Year BA/BACS, MAJOR in MI'KMAQ STUDIES

There are three Major programs available within the BA/BACS degrees: Major/Minor; Double Major; Area Major. Students who wish to pursue any of the three BA/BACS Majors in Mi'kmaq Studies must choose between two streams of study:

I. MI'KMAW LANGUAGE AND CULTURE
II. MI'KMAW GOVERNANCE

Students may enter the major program when they begin the BA/BACS program or they may begin in the three-year program and apply to enter the major program at a later date. The following regulations apply to students seeking admission to the BA/BACS Major in Mi'kmaq Studies:

- A student in good academic standing who has achieved an average of at least 60% is eligible for admission to the BA/BACS Major in Mi'kmaq Studies. Students who opt for the four-year degree, from the beginning of their program, must maintain a 60% average to remain in the program.
- An average of 65% in years three and four are required to earn a BA/BACS Major in Mi'kmaq Studies.
- A minimum average of 65% is required in the Mi'kmaq Studies courses offered towards the major.

BA/BACS MAJOR in MI'KMAQ STUDIES / MINOR IN RELATED SUBJECT

Core courses: BA/BACS five courses (30 credits)
Electives, any discipline: BA four courses (24 credits), BACS three or four courses (24/30 credits)
MINOR, any discipline: BA three courses (18 credits), BACS three or four (24/30 credits)
Directed studies/ thesis option: BA (6 credits) MIKM4800 OR 4900, BACS COMS4100

UNAMA'KI COLLEGE

MAJOR: MI'KMAQ STUDIES BA seven courses (42 credits), BACS seven or eight courses (42 or 48 credits)

(See the following departmental requirements.)

MAJOR in MI'KMAW GOVERNANCE with a MINOR

MIKM1100	(6 credits)	Compulsory
MIKM1102	(6 credits)	Compulsory
MIKM2220	(6 credits)	Compulsory
MIKM3120*	(6 credits)	Compulsory
MIKM	BA 12 credits, BACS 18 credits:	Choice 3000/4000* level:

must be from government / history

MIKM	BA/BACS 6 credits:	Choice 3000 / 4000* level: must be from the language / culture

*Students may not take 3000/4000 level courses without completing 12 credits at the 1000/2000 level.

MAJOR in MI'KMAW LANGUAGE & CULTURE with a MINOR

MIKM1100	(6 credits)	Compulsory
MIKM1102	(6 credits)	Compulsory
MIKM2113/2213 and 2214/2215	(12 credits)	Compulsory
MIKM3140* and 3141/3143*	(12 credits)	Compulsory
MIKM4800* or 4900*	(6 credits) directed studies/thesis option	Compulsory
MIKM	BA 6 credits, BACS MIKM 6 or 12 credits	Choice from 3000/4000* level courses

*Students may not take 3000/4000 level courses without completing 12 credits at the 1000/2000 level.

BA/BACS Double Major: FIRST MAJOR in MI'KMAQ STUDIES/SECOND MAJOR in related subject

Core courses: BA/BACS five courses (30 credits)
Electives, any discipline: BA four courses (24 credits), BACS three or four courses (24/30 credits)
MINOR, any discipline: BA three courses (18 credits), BACS three or four courses (24/30 credits)
Directed studies/ thesis option: BA (6 credits) MIKM 4800 OR 4900, BACS (6 credits) COMS 4100
SECOND MAJOR: BA four courses (24 credits), BACS four or five courses (24 or 30 credits)
FIRST MAJOR: MI'KMAQ STUDIES: BA seven courses (42 credits), BACS seven or eight courses (42 or 48 credits)

(See following departmental requirements.)

DOUBLE MAJOR with 1st MAJOR: MI'KMAW GOVERNANCE

BA/BACS

MIKM1100	(6 credits)	Compulsory
MIKM1102	(6 credits)	Compulsory
MIKM2220	(6 credits)	Compulsory
MIKM3120*	(6 credits)	Compulsory
MIKM4100*	(6 credits)	Compulsory
MIKM	(6 credits)	Choice 2101/2103 or 2114/22215
MIKM	(6 credits)	Choice any 2000/3000*/4000* level course

BACS

MIKM	(6 credits)	Choice any 2000/3000*/4000* level course

DOUBLE MAJOR with 1st MAJOR: MI'KMAW LANGUAGE & CULTURE

BA/BACS

MIKM1100	(6 credits)	Compulsory

MIKM1102	(6 credits)	Compulsory
MIKM3000*	(6 credits)	Choice (3630* + 3 credits) is recommended
MIKM3140*	(6 credits)	Compulsory
MIKM4140*	(6 credits)	Compulsory
MIKM4100*	(6 credits)	Compulsory
BACS		
MIKM	(6 credits)	Choice any 2000/3000*/4000* level course

*Students may not take 3000/4000 level courses without completing 12 credits at the 1000/2000 level.

BA/BACS Area Major MI'KMAQ STUDIES

The three area majors are generally chosen from three closely related disciplines.

Core courses: BA/BACS five courses (30 credits)
Electives, any discipline: BA four courses (24 credits), BACS two courses (12 credits)
Directed studies/ thesis option: BA (6 credits) MIKM4800 OR 4900*, BACS COMS4100
Third Major: BA three courses (18 credits), BACS four courses (24 credits)
Second Major: BA/BACS four courses (24 credits)
First Major: MI'KMAQ STUDIES: BA/BACS four courses (24 credits)

See following departmental requirements.

AREA MAJOR with FIRST MAJOR: MI'KMAW GOVERNANCE

BA/BACS

MIKM1100	(6 credits)	Compulsory
MIKM2220	(6 credits)	Compulsory
MIKM3120*	(6 credits)	Compulsory
MIKM4500*	(6 credits)	Compulsory

AREA MAJOR with FIRST MAJOR: MI'KMAW LANGUAGE & CULTURE

BA/BACS

MIKM1100	(6 credits)	Compulsory
MIKM1102	(6 credits)	Compulsory
MIKM3140*	(6 credits)	Choice (3630* + 3 credits) is recommended
MIKM4140*	(6 credits)	Compulsory
MIKM4100*	(6 credits)	Compulsory
BACS		
MIKM	(6 credits)	Choice any 2000/3000*/4000* level course

*Students may not take 3000/4000 level courses without completing 12 credits at the 1000/2000 level.

Four Year BA, MINOR in MI'KMAQ STUDIES

A minor in Mi'kmaq Studies is an excellent option to consider if students are pursuing one of the following Majors: Political Science, Anthropology, Sociology, Communication or Folklore.
A minor in MI'KMAQ STUDIES is made up of 18 credits in Mi'kmaq Studies.

6 credits	MIKM1100	Compulsory
6 credits	MIKM2120, 2220, 3120*, 2222*	Choice (Mi'kmaw governance)
6 credits	MIKM1102; 2110 or 2114; 3140*; 3245*; 3141* or 3145*	Choice (Mi'kmaw language & culture)

*Students may not take 3000/4000 level courses without completing 12 credits at the 1000/2000 level.

ELECTIVES in MI'KMAQ STUDIES

Mi'kmaq Studies courses may be used as electives within the, BA, BACS and BBA and as free electives in the BSc degrees as well as part of the BEng transfer program (writing courses only).

BScCS Concentration in Toqwa'tu'kl Kjijitaqnn/Integrative Science

Students wishing to enroll in this program must consult the Academic Vice Principal of Unama'ki College, the Chair of the Department of Indigenous Studies, the Dean of the School of Science and Technology, the Dean of the School of Arts and Social Sciences, or the Student Service Centre for detailed program information.

PROGRAM DESCRIPTION

Toqwa'tu'kl Kjijitaqnn requires successful completion of 120 credits plus two work placements in a science or science-related environment. The overall degree structure consists of four parts and each part was designed to provide opportunities to learn science.

Toqwa'tu'kl Kjijitaqnn requires successful completion of the following courses:

3. ***Core*** (science via small group topic choice in **Community Studies** courses)
   - COMS 1100 Analysis and Decision Making (6 credits)
   - COMS 2100 Applied Research (6 credits)
   - COMS 3100 Community Intervention (6 credits)
   - Other courses in the core must satisfy the following topic and credit requirements:
   - Science and technology perspectives (6 credits) Recommended: PHIL2222, or equivalent
   - World views and values (3 credits) Recommended: PHIL1127 or equivalent
   - Aboriginal perspectives (3 credits) Recommended MIKM at 1000; 2000 or 3000 level

4. **Concentration**

   Science - 24 credits
   - MSIT1101/1103 Sense of Place, Emergence & Participation
   - MSIT2101/2103 Ways of Knowing
   - MSIT3101/3103 Cycles & Holism
   - MSIT4101/4103 Wholeness

   Technology 18 credits
   - CHEM1104/1105
   - 6 credits from MATH1107/1208, or PHYS1102
   - 3 credits from GEOL1103, PUBH2103, PUBH2105, or
   - 3 credits from PUBH3101, PUBH3103, PUBH4106, or PUBH4111.

3. Electives (science via student's choice)

4. Work Placements (science via on-the-job experience)

Note: Changes to technology component are currently under review.

ELECTIVES in MSIT

MSIT courses may be used as electives within the B.Sc, BA, BACS and BBA degrees.

UNAMA'KI COLLEGE STUDENT SERVICES

Mi'kmaq Student Services

Patrick Johnson, BA, (902) 563- 1415

Mi'kmaq Student Services of Unama'ki College is a student support system for all Mi'kmaq and Aboriginal students enrolled in courses at the University. Services range from academic counselling to assistance for Mi'kmaq students applying for post-graduate studies. The Mi'kmaq Student Advisor acts as a liaison for all Mi'kmaq and Aboriginal students with faculty and staff of the institution, educational counsellors from First Nation Communities and Mi'kmaq organizations, as well as the Department of Indian and Northern Affairs. Mi'kmaq Student Services also provides information regarding selection of programs, admission requirements and career options available to potential and current Aboriginal students of CBU. It is located within the Unama'ki College.

Aboriginal Academic Support Programming

Leanne Simmons, MEd, Program Director (902)563-1240
Ann Denny, BBA, Aboriginal Community Liaison (902)563-1402

The Program Director for Aboriginal programs works closely with Mi'kmaw and other First Nations communities to see that their educational needs are addressed. Several programs that have emerged through contacts with Aboriginal communities are Elmitek (first year university access, in community, for First Nations students), the Mi'kmaq Science Advantage (MSAP) initiative and the **modularized BA and BBA programs which are delivered in Aboriginal communities**.

Elmitek (BA Degree) is a one-year post-secondary program designed for Mi'kmaq students who wish to further their education by attending university. "Elmitek", a Mi'kmaq expression for showing someone a path to follow, succinctly explains the program to its Aboriginal participants, many of whom use English as a second language. Elmitek points to a path that students may travel toward successful completion of a University education. The Elmitek Program is designed to make the transition into the University environment less traumatic and more successful for Aboriginal students. Their ranks are comprised of newly graduated high school students and mature students who have not been in a formal education system for several years. The Elmitek program utilizes several methods to make post-secondary education more accessible:

- several classes are offered in First Nations Communities;
- during the first year, students are required to attend classes at the CBU campus only one day per week;
- workshop sessions are scheduled to prepare students for their classes and assignments; and
- a co-ordinator may be assigned to maintain close contact with and to support students at each site.

Mi'kmaq Science Advantage Program (MSAP) is a science path which starts at the secondary level and continues to at least year one of post-secondary studies. A linkage between secondary school science courses and preparation for science degree or diploma options is the central focus of the Mi'kmaq Science Advantage Program (MSAP). The goal of MSAP is to provide Mi'kmaq students with the ability to succeed in a science or technology program. This is accomplished by providing academic support in a culture and science curriculum with small classes and community involvement and delivery. The first year of MSAP provides a solid foundation in science, as students take some of the courses that are offered in science and technology programs. After completing MSAP, students continue in either science or technology as appropriate to their interests and goals. MSAP also provides feedback and recommendations to improve Mi'kmaq secondary science and math programs.

COURSE DESCRIPTIONS

This section contains an alphabetical listing of courses offered by Cape Breton University. Comprehensive course descriptions and syllabuses are available from department chairs or individual instructors. All the courses listed will not necessarily be available during a particular academic session. The academic schedule should be consulted to determine the availability of a specific course.

Courses marked 🖱 are also offered by distance.

ACCOUNTING (ACCT)

🖱 ACCT1203 Introduction to Accounting I

Credits: 3
Exclusions: Unavailable to students with credit for BUSS121.
A BBA core requirement.

The course introduces students to financial statements emphasizing the need for business persons to understand and interpret the information contained therein. The various forms of business organization are identified and an understanding of the accounting process will be developed. Topics such as control of cash, receivables, inventory and capital assets will be examined in some detail.

🖱 ACCT1204 Introduction to Accounting II

Credits: 3 .
Prerequisites: ACCT1203.
Exclusions: Unavailable to students with credit for BUSS122.
A BBA core requirement.

An introduction to managerial accounting covering such topics as cost behaviour, cost volume profit analysis and relevant costs for decision making. As well, an analytical approach to financial statements utilizing cash flows and ratios.

ACCT2203 Applied Accounting

Credits: 3
Prerequisites: ACCT1203.
Exclusions: Unavailable to students with credit for BUSS221.

The course applies the accounting theory developed in introductory accounting to realistic business situations. It is a practical course for any business student. An accounting case, comprising a full year of business transactions, is completed using spreadsheets and computerized accounting software packages. HST, WCB, payroll, various forms and filing requirements are discussed and prepared. The course is completely project based. Significant course time is spent using computer applications.

ACCT3206 Intermediate Financial Accounting I

Credits: 3
Prerequisites: ACCT1204 with a grade of at least 60%.
Exclusions: Unavailable to students with credit for BUSS325.

A study of accounting theory and procedures involved in the valuation of resources, obligations and income determination for financial statement presentations in Canada.

ACCT3207 Intermediate Financial Accounting II

Credits: 3
Prerequisites: ACCT3206.
Exclusions: Unavailable to students with credit for BUSS326.

A continuation of ACCT3206, which includes an in-depth consideration of specific accounting topics. The focus is current CICA recommendations and international standards.

ACCT3208 Planning and Control

Credits: 3
Prerequisites: ACCT1204, FINC2401 or permission of instructor
Exclusions: Unavailable to students with credit for BUSS323.

This course covers both the concepts and techniques of planning and control. It is a primarily case-based course that incorporates both managerial and financial accounting decision making. Students will build on concepts studied in 1203 and 1204 and adapt them to a combination of structured and unstructured business scenarios. A major focus of the course will be the enhancement of teamwork, analytical and decision-making skills.

ACCT4201 Cost Accounting

Credits: 3
Prerequisites: ACCT3208 or BUSS321 or permission of instructor.
Exclusions: Unavailable to students with credit for BUSS421.

The concepts and techniques of modern cost accounting including cost behaviour and profit-volume relationships, standard costs, budget flexibility and cost structures for control and motivation are explored in this course. Material relating to ISO 9000 and actively based costing are also examined.

ACCT4205 Accounting Theory

Credits: 3
Prerequisites: ACCT3207 or permission of the instructor.
Exclusions: Unavailable to students with credit for BUSS424.

An introduction to the structure of accounting theory including a study of accounting standards, their history and underlying theory.

ACCT4206 Advanced Financial Accounting I

Credits: 3
Prerequisites: ACCT3207 or permission of the instructor.
Exclusions: Unavailable to students with credit for BUSS425.

A study of the accounting theory of intercorporate investments, business combinations, consolidations, consolidated financial statements, segment reporting and foreign operations.

ACCT4207 Advanced Financial Accounting II

Credits: 3
Prerequisites: ACCT4206.
Exclusions: Unavailable to students with credit for BUSS426.

Price level accounting, current value accounting, partnerships, fiduciary accounting, accounting for business in financial difficulties, non-profit and government accounting.

ACCT4208 Auditing

Credits: 3
Prerequisites: ACCT3207 or permission of the instructor.
Exclusions: Unavailable to students with credit for BUSS427.

What is the function of auditing in our society? Course imparts answers to this question by describing professional standards and ethics, legal liability, planning and conducting audits with an emphasis on the importance of internal control and the meaning behind the auditor's report. Presentations and participation are integral parts of the course.

ACCT4209 Taxation

Credits: 3
Prerequisites: ACCT1204.
Exclusions: Unavailable to students with credit for BUSS451.

Examines the Canadian tax system with emphasis on the determination of personal income tax utilizing computer software tax packages.

ACCT4701 Special Topics in Accounting

Credits: 3
Prerequisites: Academic regulations criteria and permission of the department.

Provides an opportunity to deepen studies in an area of accounting not available within the regular course offerings. See dean or department chair for details.

ANTHROPOLOGY/SOCIOLOGY (ANTH, SOCO, AN/S)

Anthropology is the study of all aspects of humankind, in various times and places. Most courses in this department focus on sociocultural anthropology, which looks at how societies are organized on the basis of shared ideas or culture. But anthropology also includes a biological subfield (the study of what we are as a species and how we got to be that way), archaeology (the study of society through examining material products) and linguistics (the study of language).

Sociocultural anthropology and sociology are close cousins or, more formally, cognate disciplines. They have some common founding fathers. They both take a holistic approach to social organization and culture: that is, they examine all aspects of society (for example, family, education and deviancy); and they look at the way these aspects of society are related to one another. Both fields also foster critical thinking. They ask us to question the ideas we take for granted and compare what we believe to what we actually do.

The two fields also share many research methods such as interviews and observations made in everyday settings. Sociologists do tend more often to favour surveys, which provide information that can be put into numerical or quantitative form. This is partly because sociologists also emphasize large-scale studies of large-scale industrial societies. Sociocultural anthropologists also study our own society and others like it, but they usually focus on smaller groupings (neighbourhoods, workplaces, etc.) within the whole.

Anthropologists pay more attention than others (including sociologists) to small-scale, exotic societies and to comparing a broad range of very different ones. However, both anthropology and sociology study differences between groups (by race, cultural background, occupation, gender, etc.) within societies.

COURSE DESCRIPTIONS

A student can treat Anthropology as one discipline and Sociology as another separate discipline within his or her program. For example, someone could major in Anthropology and minor in Sociology. Any course labelled ANTH or AN/S can be counted as Anthropology; any course marked AN/S or SOCO qualifies as Sociology.

Alternatively, a student can combine the two fields as a single discipline or joint Anthropology/Sociology concentration. In that case, ANTH and SOCO and AN/S courses all fit the one category. For example, someone's three year BACS Academic specialty in Anthropology/Sociology could comprise AN/S1200, SOCO2300, ANTH3110 and AN/S2210.

Students planning a BEd: Note that both Anthropology and Sociology are teachable subjects in Nova Scotia. This includes courses labelled AN/S or ANTH or SOCO. For detailed information, check with professors in the department or with the office of your academic dean.

The 12-credit prerequisite for 3000-level courses may be waived if a student obtains special permission from the professor and has a grade of 75% or better for AN/S1200. Other kinds of exceptions may also be allowed by individual professors, in very special cases. A student with only six credits of Anthropology and/or Sociology and a mark of 75% or above in those credits is eligible to get professor's permission to enroll in any AN/S, ANTH or SOCO courses.

ANTH1101 Introduction to Linguistics **Cross-listed with COMM1107, MIKM1145**

Credits: 3
Exclusions: Unavailable to students with credit for ANTH107, COMM107 or MIKM107.

An introduction to the scientific study of language. Topics include phonology, morphology, syntax, semantics and the heritage languages of Cape Breton (Mi'kmaq, French, Gaelic and English). This course is intended as a prerequisite for ANTH2100.

AN/S1200 Introduction to Anthropology & Sociology

Credits: 6
Exclusions: A student with previous credit for introductory anthropology or sociology should not enroll in 1200.
Unavailable to students with credit for AN/S110.
Satisfies the Group three, BA core requirement but is open to all degree students. 1200 satisfies the prerequisite for all 2000- and 3000-level courses in AN/S and ANTH and SOCO.

An integrated survey of cultural anthropology and sociology, showing and explaining the variety of humans' life-strategies through time and across cultures and introducing key theories and research approaches.

ANTH2100 Linguistic Anthropology **Cross-listed with MIKM2140**

Credits: 6
Prerequisites: 6 credits introductory Anthropology and/or Sociology and ANTH1101.
Exclusions: Unavailable to students with credit for ANTH208, HERT208 or MIKM208.

An introduction to socio-cultural aspects of language's forms and functions as expressed in various cultures, including language's interplay with perception, gender, and class. Focus will be on collection and documentation of language materials, with emphasis on insider/outsider research. Mi'kmaq, Gaelic and Acadian materials are emphasized.

ANTH2101 Physical Anthropology: First Principles and Current Consequences

Credits: 3
Prerequisites: 6 credits introductory Anthropology and/or Sociology or 6 credits introductory Biology or permission of instructor.
Exclusions: Unavailable to students with credit for ANTH205.

A review of the principles of evolution and their human consequences, outlining the differentiation of the human lineage, characterizing the distinctively human adaptation and surveying contemporary variation.

ANTH2103 Evolution of the Human Adaptation

Credits: 3
Prerequisites: 6 credits introductory Anthropology and/or Sociology or 6 credits introductory Biology or permission of instructor.
Exclusions: Unavailable to students with credit for ANTH207.

An examination of the interplay between biology and behaviour in the emergence and prehistoric development of culture, including a review of the fossil record and problems of its interpretation.

ANTH2104 Interpreting the Past: Methods in Ethnohistory

Credits: 3
Prerequisites: 6 credits introductory Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for ANTH209.

Introduction to and overview of ethnohistory, focusing on ethnohistoric methods, source identification and interpretation, palaeography and calendrics, oral history and historic linguistics, social history and historic site archaeology, physical anthropology and epidemiology and cultural-ecological insights. Regional overviews and case studies will be used to illustrate the results of ethnohistoric methods.

ANTH2105 Anthropology of Tourism

Credits: 3
Prerequisites: 6 credits introductory Anthropology and/or Sociology or permission of instructor.
Exclusions: Unavailable to students with credit for ANTH211.

Introduction to an overview of anthropology of tourism, including its development and key concepts and issues, illustrated through case studies from both developing and developed countries.

ANTH2106 Religion, Magic, and Witchcraft

Credits: 3
Prerequisites: 6 credits introductory Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for ANTH229 or ANTH391 or AN/S391.

An introduction to the anthropology of religion. This course provides a comparative look at how people of different cultures and religious traditions interpret the world and mobilize their actions in terms of their understanding of the relationship between social, natural and supernatural forces.

ANTH2107 Deviance in Cross-Cultural Perspective

Credits: 3
Prerequisites: 6 credits introductory Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for ANTH235.

People everywhere view certain others as weird, dangerous or bad. By cross-cultural comparison, this course explores how and why that happens, its effects, and what it suggests about human social life in general.

ANTH2109 Culture, Distress and Psychiatric Abnormality

Credits: 3
Prerequisites: 6 credits introductory Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for ANTH237.

A cross-cultural examination of the interplay of culture, idioms of distress and healing.

ANTH2111 Indigenous Musics of North America Cross-listed with ETHM2311, MIKM1206

Credits: 3
Exclusions: Unavailable to students with credit for ANTH255, ETHM255, or MIKM255.

This course will introduce students to a range of musical tradition from North America Indigenous communities, including nation specific (especially Mi'kmaq), inter-tribal and popular musics. The course focuses on the significance of music to various Indigenous peoples, examining its role in, for example, ritual, spiritual expression, healing, relationships and dance. Students will also explore the relationship between music and identity, examining gender roles and nation-specific musical expressions. Students will learn basic music vocabulary in order to analyze and describe the characteristics of the music encountered.

AN/S2200 Humankind: Nature and Development

Credits: 6
Prerequisites: 6 credits introductory Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S220.
Satisfies the BA core requirement for Group 5 (or Natural Science), but also open to all degree students.

Developmental and comparative perspectives on human nature, showing how natural and social sciences interface in explaining the interplay of biological and socio-cultural factors in our behaviour.

AN/S2201 Families: A Cross-Cultural Tour

Credits: 3
Prerequisites: 6 credits introductory Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S221.

A course in the forms and workings of family, household and larger kinship structures in a variety of cultural settings, to deepen our insight into our own ways.

AN/S2202 Ageing and the Life Cycle

Credits: 6
Prerequisites: 6 credits introductory Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S 222 or AN/S322.

Biocultural aspects of the modern life cycle, emphasizing later life. For example: child health in cross-cultural perspective, life-history studies, female and male ageing cross-culturally, life-stages and social well-being.

AN/S2203 Urban and Rural Community

Credits: 3
Prerequisites: 6 credits introductory Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S223.

An investigation of social interrelationships among people who share locales. Themes include rural-urban comparisons, the question of urban alienation, quality of life, the nature of community and dynamics of community action.

AN/S2210 Qualitative Research Methods in Social Science Cross-Cross-listed with POLS2160

Credits: 6
Prerequisites: 6 credits introductory Anthropology and/or Sociology or Political Science or strong background in related field.
Exclusions: Unavailable to students with credit for AN/S266 or POLS266.
Core requirement in Social Research Certificate.

A course in ethnographic methodology, ethics, techniques of generating non-numerical data, interpretive analysis and practical applications. Fieldwork approaches include intensive interviewing, participant observation and interpretation of text and visual images.

AN/S2212 Quantitative Research Methods and Statistics in Social Science

Cross-listed with POLS2162

Credits: 6
Prerequisites: 6 credits introductory Anthropology and/or Sociology or Political Science, or strong background in related field. Prior math skills are not required.
Exclusions: Unavailable to students with credit for AN/S268 or POLS268.
Satisfies the Group 5, BA core requirement, but also open to all degree students. Core requirement in Social Research Certificate.

An overview of research designs that produce numbers as the data, and a comprehensive study of survey methods. Includes methodological principles, sampling, preparation and administration of instruments, computerized data-analysis with SPSS, interpretive reporting, and practical applications. Scheduled labs in SPSS are added to the second half of the course.

AN/S2220 Societal Problems

Credits: 6
Prerequisites: 6 credits introductory Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S270.

This course focuses on socio-cultural arrangements and processes which create human problems and shape our perception of them. Special attention is given to economically non-developed and underdeveloped societies.

AN/S2222 Health, Illness and Medicine

Credits: 6
Prerequisites: 6 credits introductory Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S282 or AN/S320.

Critical study of socio-cultural patterns, causes and effects of health and illness; health-care institutions; and culturally based conceptions of wellness and of illness-care practices.

AN/S2230 Ethnicity, Race, and Nationalism **Cross-listed with MIKM2222**

Credits: 6
Prerequisites: 6 credits introductory in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S294, MIKM350 or SOCO 350.

This course examines the main approaches to the study of ethnic groups, the social construction of race and nationalist movements. The analysis of selected mass media materials will complement the theoretical part of the course, illustrating the influence of ethnicity, race and nationalism on contemporary culture.

SOCO2300 Sociology of the Family

Credits: 6
Prerequisites: 6 credits introductory Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for SOCO210.

The study of family roles, forms, processes and functions, from the perspectives of household, community and the larger social system, with special attention to our own contemporary society and its key problems.

SOCO2301 Canadian Society I

Credits: 3
Prerequisites: 6 credits introductory Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for SOCO281 or SOCO381.

Key contemporary issues in Canada and their historical socio-cultural roots, focusing on social, economic and political systems, including economic crisis, regionalism, labour, ethnicity, gender and political debates grounded in these concerns.

SOCO2302 Sociology of Deviance

Credits: 6
Prerequisites: 6 credits introductory Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for SOCO246 or SOCO340.

Critical and comparative examination of theories and studies on processes that place individuals or groups out of step with societal rules and study of consequences both for deviants and for society.

SOCO2303 Canadian Society II

Credits: 3
Prerequisites: 6 credits introductory Anthropology and/or Sociology; plus either SOCO2301 or permission of instructor.
Exclusions: Unavailable to students with credit for SOCO283 or SOCO383.

Continuation of SOCO2301, with special attention to case studies from the literature.

SOCO2304 Social and Political Context of Education

Credits: 3
Prerequisites: 6 credits introductory Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for SOCO285.

An exploration of the social and political processes that produce education as a social institution. In particular, a focus on the history, development and ideologies associated with schooling in Canada.

SOCO3306 Contemporary Issues in Education

Credits: 3
Prerequisites: 6 credits introductory Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for SOCO287.

A critical exploration of issues of diversity, privilege and marginalization in relation to curriculum and education as social institutions. May include discussions of critical pedagogy, multiculturalism, humane education, Afro-centric and/or Aboriginal-centred curricula.

ANTH3100 Survey of Anthropological Theory

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for ANTH302 or ANTH232.

A critical review of the roots of current theoretical concepts and issues in sociocultural anthropology.

ANTH3101 People and Power

Credits: 3
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for ANTH331.

A critical overview of theories, themes and debates about power, both cross-culturally and across time, from the perspective of political anthropology.

ANTH3102 Field School in Historical Archaeology Cross-listed with HIST3102

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology. With explicit permission of the Department Chair, a student lacking the prerequisite may be admitted on the basis of relevant practical experience and parallel formal training in other disciplines.
Exclusions: Unavailable to students with credit for ANTH304, HERT340 or HIST340.

This course gives students field instruction in the techniques used in the excavation of an archaeological site. Hands-on instruction in manual excavation methods, mapping, field recording and laboratory analysis will prepare students as qualified archaeological field technicians. First class held on campus; all others at local field site.

ANTH3103 Mi'kmaq Nouns and Verbs Cross-listed with MIKM3313

Credits: 3
Exclusions: Unavailable to students with credit for ANTH361 or MIKM361.

Examines the morphological structure of Mi'kmaq nouns and verbs. The complex internal word grammar of Mi'kmaw is explored to give insight into the semantic categories of this endangered language.

ANTH3110 Applied Anthropology

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for ANTH3110.

This course demonstrates anthropology's everyday relevance in identifying and addressing human needs in many areas (e.g., community development, education, medical care, social services and the workplace).

ANTH3113 Forensic Anthropology and Human Skeletal Biology

Credits: 3
Prerequisites: 12 credits in Anthropology and/or Anthropology/Sociology or 6 credits Anthropology and BIOL2441 or BIOL3200. With permission of the instructor, a student lacking the prerequisite may be admitted on the basis of relevant practical experience and parallel formal training in other disciplines.
Exclusions: Unavailable to students with credit for ANTH370.

Study of the human skeleton (bones and dentition) for applications of recovery in bioarchaeological and forensic anthropology settings. Students will learn how to determine age, sex, stature and individual characteristics from the skeleton. This course includes a lab component.

AN/S3200 Equality and Inequalities: Why and So What?

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S330 or SOCO400 ("Social Stratification & Inequality").

Cultures have embodied many kinds and degrees of inequalities, with profound implications for the lives of individuals and the history of societies. This course examines research and theory on class, status and power relations: who gets what, how, why and with what consequences.

AN/S3201 World Problems

Credits: 3
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S305, AN/S291 or SOCO291.

Overview of social science insights on large-scale social inequalities, their causes and possible solutions, with exploration of cultural, economic and political influences through both local and international case studies.

AN/S3202 Canada's Cultural Landscape Cross-listed with FOLK3400

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology; or 6 credits FOLK; or background in Cultural Geography.
Exclusions: Unavailable to students with credit for AN/S332 or FOLK332.

The course takes an interdisciplinary approach to the exploration of both the perception and experience of landscape. Provides opportunities to examine and interpret the cultural landscapes of the students' own regions.

AN/S3203 Comparative Variation and Change in Non-Western Societies

Credits: 3
Prerequisites: 12 credits in Anthropology and/or Sociology; plus either AN/S3201 or permission of instructor.
Exclusions: Unavailable to students with credit for AN/S307, AN/S293 or SOCO293.

Socio-economic, political, and cultural dynamics of underdeveloped,, non-western societies in the post-colonial era, analyzing national and international circumstances that set the context for current economic development practices and future possibilities.

AN/S3204 Culture, Technology and Environment I

Credits: 3
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S309 or ANTH309.

Explores connections between environmental and social problems: how political, cultural, social and economic factors shape our relationship with the natural world.

AN/S3205 Culture, Technology and Environment II

Credits: 3
Prerequisites: AN/S3204.
Exclusions: Unavailable to students with credit for AN/S311 or ANTH311.

A continuation of AN/S3204, with special attention given to substantive case studies.

AN/S3206 Popular Culture

Credits: 3
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S333.
May be included in a Communication concentration or major.

The course combines anthropological and sociological theory and research methods to critically examine the pervasive phenomena of popular culture, including such topics as music, news media, television programming, popular movies and sports.

AN/S3207 Paranormalism and Pseudoscience

Credits: 3
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S335.

A critical and interdisciplinary exploration of the premises and practices associated with paranormalism and pseudoscience. The course will focus on the nature and sources of paranormal beliefs in contemporary society, while encouraging the development of the critical skills necessary to objectively examine paranormal and pseudoscientific claims.

AN/S3208 Work and Sharing

Credits: 3
Prerequisites: 12 credits Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S355 or AN/S251.

A cross-cultural examination of styles of production (work) and distribution (sharing), aimed at developing a critical perspective on what happens in our own economic world and in our daily lives.

AN/S3209 Inside Organizations

Credits: 3
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S357, AN/S253, orANTH376.

The course examines how the concepts and methods of Anthropology can help us to gain a critical understanding of the inner workings of business organizations and the dynamics of business activity, both at home and abroad.

AN/S3210 Self and Other: Encounters, Traditions and Transformations

Cross-listed with MIKM3110

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students having credit for AN/S 336, ANTH333, or MIKM334.

Colonialism produced an enduring cultural legacy with a range of severe consequences for indigenous cultural reproduction and social organization. Europe also felt the drastic consequences of its own expansionism. Course focuses on how indigenous self-definitions and traditions have been transformed, revitalized or created a new and considers indigenous peoples in a global perspective covering the past 500 years.

AN/S3211 Societies and Cultures of Latin America I

Credits: 3
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S337.

An ethnohistorical overview of pre-Columbian societies and cultures, including Aztec, Maya and Inca, until the conquest.

AN/S3212 Animals and People

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S358.

A critical and comparative examination of the relationship between people and animals. Human attitudes toward animals will be explored by examining such topics as animal representations in art and literature and popular culture, as well as the social and cultural constructions of legal, political, economic and philosophical issues pertaining to animals. Much of the focus will be on the controversies surrounding this complex social relationship.

AN/S3213 Societies and Cultures of Latin America II

Credits: 3
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S339.

An historical and contemporary overview of societies and cultures of Latin America from conquest and colonization to the present day.

AN/S3214 Language Contact, Change, Death and Revitalization Cross-listed with MIKM3245

Credits: 3
Exclusions: Unavailable to students with credit for AN/S363, HERT363 or MIKM363.

An examination of how languages change when in contact as well as the very serious process of language death, which is now happening on a global scale. Discussion focuses on suggested solutions to the rapid loss of linguistic diversity. Languages such as Mi'kmaq and Cape Breton Gaelic are highlighted for analysis.

AN/S3220 Social and Cultural Construction of Gender

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S360.

Critical study of the socio-cultural roots, dynamics and consequences of what male and female mean to people in various times and places, with respect to a wide variety of life experiences.

AN/S3222 Demography

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology.
Recommended: AN/S2212 or equivalent.
Exclusions: Unavailable to students with credit for AN/S362 or SOCO362.

This course will investigate the field of population dynamics (birth, migration and death) and population structure from the perspectives of anthropology and sociology. As part of the specific treatment of demographic techniques and theoretical approaches, the course will emphasize issues pertinent to societies and cultures both past and present. It will rely on anthropological and sociological investigations where demographic measures have been a component.

AN/S3230 Methods of Applied Social Research

Credits: 6
Prerequisites: (a) AN/S2210 or AN/S2212; plus (b) 6 credits in Anthropology and/or Sociology at the 2000-3000 level other than AN/S2210 and AN/S2212; or (c) Instead, with explicit permission of the instructor, a student lacking those prerequisites may be admitted on the basis of relevant practical experience and parallel formal training in other disciplines.
Exclusions: Unavailable to students with credit for AN/S364.

A course in qualitative and quantitative applied social research design and techniques, emphasizing approaches such as program evaluation, needs assessment, social-impact assessment, clinical analysis of organizations and advocacy. Includes a complete and original research project and year-end report, in which each student may opt for a qualitative or quantitative design.

AN/S3232 Work and Women in Society

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for AN/S392.

Examination of women's position in society, focusing on those life-sustaining activities known as work (paid or unpaid) and investigating bio-physical, socio-psychological and socio-cultural underpinnings of the relevant practices.

SOCO3300 Survey of Sociological Theory

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for SOCO306 or SOCO230.

A critical study of key social concepts, major theoretical debates and leading social thinkers of the nineteenth and twentieth centuries.

SOCO3301 Cape Breton Society: Social-Economic Foundations and Change

Credits: 3
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for SOCO351 or SOCO451.

Critical analysis of the shifting economic base, occupational structure, community formation and political culture of Cape Breton during the twentieth century.

SOCO3303 Cape Breton Society Today

Credits: 3
Prerequisites: SOCO3301; or permission of instructor.
Exclusions: Unavailable to students with credit for SOCO353 or SOCO453.

Continuities and crises in contemporary Cape Breton society, in larger perspective, emphasizing the interplay between intimate processes of character, family, community and workplace.

SOCO3304 Religion, Science and Society

Credits: 3
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for SOCO395.

Analysis of changing attitudes and perceptions about religion and science. Examining the structure and function, public perception and social construction of these two realms of knowledge.

SOCO3305 Sociology of Religion

Credits: 3
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students having credit for SOCO393 or SOCO 390.

Theories and research studies of the socio-cultural determinants of religious forms and orientations, as well as the reciprocal impact of religion on socio-cultural commitments, action and institutional formations.

AN/S3720 or ANTH3710 or SOCO3730 Special Topics

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology.

A course label used when an instructor with particular expertise offers a special topic for one time only. A student may take more than one such course for Anthropology and/or Sociology credit.

AN/S3721 or ANTH3711 or SOCO3731 Special Topics

Credits: 3
Prerequisites: 12 credits in Anthropology and/or Sociology.

A course label used when an instructor with particular expertise offers a special topic for one time only. A student may take more than one such course for Anthropology and/or Sociology credit.

AN/S or ANTH or SOCO 3800 Directed Independent Study Topics, Junior Level

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology.

Requires a special arrangement between an individual student and professor, endorsed by the Dean, to cover a topic unavailable in the regular offerings, at a third-year level. (See also the 3-credit versions, 3801 and 3803; compare the senior versions, 4801 and 4811/4813.) Intended only for a highly motivated student who has a special interest and who achieves goals without close supervision. A student needing an unscheduled course and who also needs more structure and direction should choose instead to arrange a tutorial in a course listed in the calendar. A student may take several courses as Directed Study in Anthropology and/or Sociology, to a maximum of 18 credits.

AN/S or ANTH or SOCO 3801, 3803 Directed Independent Study Topics, Junior Level

Credits: 3, 3
Prerequisites: 12 credits in Anthropology and/or Sociology.

Requires a special arrangement between an individual student and professor, endorsed by the Dean, to cover a topic unavailable in the regular offerings, at a third-year level. (See also the 6-credit version, 3800; compare the senior versions, 4801 and 4811/4813.) Intended only for a highly motivated student who has a special interest and who achieves goals without close supervision. A student needing an unscheduled course and who also needs more structure and direction should choose instead to arrange a tutorial in a course listed in the calendar. A student may take several courses as Directed Study in Anthropology and/or Sociology, to a maximum of 18 credits.

ANTH4100 or SOC04300 or AN/S4200

Classical Theory in Anthropology, Sociology, or combined Anthropology and Sociology

Credits: 6
Prerequisites: 18 credits in Anthropology and/or Sociology, including ANTH3100 or SOCO3300 (or SOCO230 or SOCO232).
Exclusions: Unavailable to students with credit for ANTH or AN/S or SOCO440.

Each of the above three choices satisfies the four year major BA core requirement for Senior Seminar or a 4000 level Directed Study (6 credits).

A seminar on major conceptual frameworks, debates, and figures in anthropological and/or sociological theory, from the mid-nineteenth to the mid-twentieth century.

ANTH4102 or SOC04302 or AN/S 4202

Contemporary Theory in Anthropology, Sociology, or combined Anthropology and Sociology

Credits: 6
Prerequisites: 18 credits in Anthropology and/or Sociology, including ANTH3100or SOCO3300 (or SOCO230 or SOCO232).
Exclusions: Unavailable to students with credit for ANTH or AN/S or SOCO470.
Each of the above three choices satisfies the 4-year major BA core requirement for Senior Seminar or a 4000 level Directed Study (6 credits).

A seminar on major conceptual frameworks, debates, and figures in anthropological and/or sociological theory, from the mid-twentieth century to the present.

AN/S4212 Social Structure and Change

Credits: 6
Prerequisites: 18 credits in Anthropology and/or Sociology, including 6 credits above the 2000 level.
Satisfies four year major BA core requirement for Senior Seminar or a 4000 level Directed Study (6 credits).
Exclusions: Unavailable to students with credit for AN/S420.

A seminar or tutorial on the structure and interplay of major social institutions across the broad sweep of cultural evolution, including an overview of central trends in today's world system.

AN/S or ANTH or SOCO4801 Directed Independent Study Topics, Senior Level

Credits: 3
Prerequisites: 18 credits with 60% average in Anthropology and/or Sociology, including 6 credits above the 2000 level.
Can be credited toward four year major BA core requirement for Thesis/Directed Study (6 credits).

Requires a special arrangement between an individual student and professor, endorsed by the Dean, to cover a topic unavailable in the regular offerings, at a fourth-year level. (See also third-year versions, 3800 and 3801/3803.) A student seeking a more extended, project-focused senior experience should choose the 4811/4813 combination or4900, but can take one or more 4801 courses for additional topics. AN/S, ANTH, SOCO 4801 is intended only for a highly motivated student who has a special interest and who gets things done without being closely supervised. A student needing an unscheduled course and who also needs more structure and direction should choose instead to arrange a tutorial in a course listed in the calendar. A student may take several courses as Directed Study in Anthropology and/or Sociology, to a maximum of 18 credits.

AN/S or ANTH or SOCO4811 Directed Independent Project Proposal, Senior Level

Credits: 3
Prerequisites: 18 credits with 65% average in Anthropology and/or Sociology, including 6 credits above 2000 level and 6 credits in research methods (AN/S2210 or 2212); plus a one-page statement of objectives and an idea for a potential project and/or consultation with the professor before registration. Satisfies the Group 6 requirement for a Directed Study in the four year major BA core. The AN/S4811 and AN/S4813 together replace the old AN/S498.

AN/S, ANTH, SOCO4811 is intended only for a senior student, concentrating in the discipline, who is planning also to complete 4813. The 4811/4813 combination is project-focused, as an alternative to the more rigorous 4900 thesis course. The 4811 includes development of a topic, literature search and submission of a project proposal. In some years the course may be provided as a tutorial, which requires a special arrangement between an individual student and professor, endorsed by the Dean. Alternatively, the course may be offered as a seminar scheduled by the department in conjunction with its regular course offerings in other years. (See also the third-year counterparts, 3800 and 3811/3813. For a 3-credit alternative to the project-focused 4811/4813, see 4801.) AN/S, ANTH, SOCO4811/4813 are intended only for a highly motivated student who has a special interest and who gets things done without being closely supervised. A student needing an unscheduled course and who also needs more structure and direction should choose instead to arrange a tutorial in a course listed in the calendar. A student may take several courses as Directed Study in Anthropology and/or Sociology, to a maximum of 18 credits.

AN/S or ANTH or SOCO4813 Directed Independent Project Implementation, Senior Level

Credits: 3
Prerequisites: AN/S or ANTH or SOCO4811.
Can be credited towards the four year major BA core requirement for Thesis/Directed Study (6 credits).

In 4813 the student carries to completion the project developed in 4811. In some years, the course may be provided as a tutorial, which requires a special arrangement between an individual student and professor, endorsed by the Dean.

Alternatively, the course may be offered as a seminar scheduled by the department in conjunction with its regular course offerings in other years.

AN/S or ANTH or SOCO4900 Senior Thesis in Anthropology and/or Sociology

Credits: 6
Prerequisites: 24 credits with 75% average in Anthropology and/or Sociology, including 6 credits in research methods (AN/S2210 or 2212) and~~/or~~ in theory (ANTH3100 or SOCO3300); plus a one-page statement of motives and aims in taking the course and/or consultation with the professor before registration. Satisfies Group 6 of the four year major BA core. Required for Honours.

AN/S, ANTH, SOCO4900 is intended for high ability senior students specializing in Anthropology and/or Sociology, especially those who hope to prepare for admission to a Master's program. It is an individualized project, culminating in a formal thesis. In some years the course may be provided as a tutorial, which requires a special arrangement between an individual student and professor, endorsed by the Dean. Alternatively, the course may be offered as a seminar scheduled by the department in conjunction with its regular course offerings in other years. Students seeking a similar but somewhat less demanding experience should consider 4811 and 4813.

ART (ARTT)

ARTT1100 Drawing

Credits: 6
Exclusions: Unavailable to students with credit for ARTT100.Satisfies the Group 4, BA core requirement.

An introductory studio course in the skills and techniques of drawing. Students progress from line through tone using a variety of media such as pencil and charcoal.

ARTT1101 Drawing

Credits: 3
Exclusions: Unavailable to students with credit for ARTT105.Can be used for the Group 4, BA core requirement.

Techniques in water-based media such as ink, watercolour and acrylic.

ARTT1102 Painting

Credits: 6
Exclusions: Unavailable to students with credit for ARTT120.
Can be used for the Group 4, BA core requirement.
A studio course in the techniques and methods of painting. Media used include oils, acrylic, watercolour and egg tempura. Covers all aspects of painting, from surface preparation to final presentation.

ARTT2100 General Studio

Credits: 6
Exclusions: Unavailable to students with credit for ARTT210.

An introductory studio course in the basic techniques and principles behind the visual arts. Media which may be explored include drawing, painting, sculpture, pottery and print making.

ARTT2102 General Studio II

Credits: 6

Exclusions: Unavailable to students with credit for ARTT220.

An advanced course in painting, with emphasis on colour and design. These theories may be placed in an abstract mode with the student choosing the direction of her/his painting.

ARTT4800 Directed Study

Credits: 6
Prerequisites: Any 1000 level and any 2000 level studio art course (ARTT1100 orARTT1102 and ARTT2100).

See Department Chair for details.

BIOLOGY (BIOL)

BIOL1101 Cell and Molecular Biology I

Credits: 3
Exclusions: Unavailable to students with credit for BIOL101.

Introduces students to biology from the cellular and molecular perspectives. Major topics include cells as the basic units of life, evolution and variety of cells, macromolecules and organelles in cells, energy conversion in cells, cell reproduction and an introduction to DNA. Course includes lab component.

BIOL1601 Organismal and Evolutionary Biology

Credits: 3
Exclusions: Unavailable to students with credit for BIOL104.

Introduction to biological organization and biodiversity. Major topics include diversity of form and function in living organisms, biological relationships, patterns of heredity and evolutionary processes. Course includes lab component.

BIOL2101 Cell and Molecular Biology II

Credits: 3
Prerequisites: BIOL1101 or permission of instructor.
Exclusions: Unavailable to students with credit for BIOL202, BIOL100 or BIOL102.

Introduces students to biology from the cellular and molecular perspectives. Major topics include division of cells (somatic and germ lines), genetics, DNA structure and replication, gene expression and genetic mutation. Course includes lab component.

BIOL2211 Genetics

Credits: 3
Prerequisites: BIOL1101 and BIOL2101 or permission of instructor.
Exclusions: Unavailable to students with credit for BIOL266.

The gene as a fundamental unit of heredity with special emphasis on Mendelian principles, protein chemistry, linkage and genetic factors determining human characteristics, normal and abnormal. Course includes lab component.

BIOL2225 Drugs and Behaviour Cross-listed with PSYC2251

Credits: 3

Prerequisites: 6 credits in Biology.
Exclusions: Unavailable to students with credit for BIOL225 or PSYC225.

This course will review the basic principles and concepts of pharmacology, psychology and neurophysiology. Then the course concentrates on drug classes, recreational (e.g. alcohol and marijuana) and prescribed (e.g. benzodiazepines and antidepressants) and details the specific drugs within each class.

BIOL2301 Plant Development and Diversity

Credits: 3
Prerequisites: BIOL1101 and BIOL1601 or permission of instructor.
Exclusions: Unavailable to students with credit for BIOL205.

A study of plant development, physiology, anatomy and reproductive biology, providing an assessment of the biological functions and economic roles of the major classes of plants. Course includes lab component. Normally offered every other year.

BIOL2411 Invertebrate Zoology

Credits: 3
Prerequisites: 6 credits of 1000-level Biology or permission of instructor.
Exclusions: Unavailable to students with credit for BIOL245.

The major invertebrate phyla and their representatives with a special emphasis on the structural and functional homologies of each group, their phylogeny, life histories, physiology and ecological adaptations. Course includes lab component.

BIOL2441 Introduction to Vertebrates

Credits: 3
Prerequisites: 6 credits of 1000 level Biology or permission of instructor.
Exclusions: Unavailable to students with credit for BIOL235.

An overview of vertebrate animals, with emphasis on their phylogenetic interrelationships, a review of the diagnostic characters of the major groups and a survey of past and modern diversity. Lectures will highlight major evolutionary trends, lifestyles, adaptations and interesting features of vertebrate life past and present. Course includes a lab component: labs involve the systematic dissection of study specimens, with examination of organ systems, their tissues and histology, with supplementary information from slides.

BIOL2501 Environmental Biology

Credits: 3
Prerequisites: BIOL1101 or BIOL1601 or PUBH1101 and GEOL1103.
Exclusions: Unavailable to students with credit for BIOL203.

Introduction to higher levels of biological organization. Major topics include ecosystem organization, adaptations of organisms to environment, ecosystem function and energy flow, populations and communities, effects of humans on the environment. Most laboratory sessions are field trips and as such, no evening lab sections will be offered. Course includes lab component.

BIOL3101 Design, Analysis & Interpretation of Quantitative Biological Research

Credits: 3
Prerequisites: BIOL2501 and MATH1109 or MATH2106.

Exclusions: Unavailable to students with credit for BIOL389.

When and how to use quantitative methods in biological research. Students will learn how to design an observational or experimental study, as well as graphically summarize, analyse and interpret analyses of univariate and multivariate data from a biological research study. They will also learn about alternatives to the hypothesis testing paradigm for analyzing quantitative data.

BIOL3111 Molecular Regulation in Biological Systems

Credits: 3
Prerequisites: BIOL1101, BIOL2101 and CHEM2301 or permission of the instructor.
Exclusions: Unavailable to students with credit for BIOL315.

The regulatory activities of prokaryotic and eukaryotic cells. Labs will introduce students to procedures routinely used by molecular biologists. Course includes lab component. Normally offered every other year.

BIOL3121 Introduction to Gene Manipulation

Credits: 3
Prerequisites: BIOL1101, BIOL2101 and CHEM2301 or permission of instructor.
Exclusions: Unavailable to students with credit for BIOL317.

The course introduces the tools and procedures used by molecular biologists and genetic engineers. Labs provide applied skills in molecular procedures. Course includes lab component.

BIOL3200 Human Anatomy and Physiology

Credits: 6
Prerequisites: 6 credits of Biology or permission of instructor.
Exclusions: Unavailable to students with credit for BIOL360.

A comprehensive course in human anatomy and physiology, designed primarily for students in science, physical education, health sciences and related programs. A systems approach is used to underscore integration at the organismal level. Labs emphasize osteology, myology and experimentation with emphasis on respiratory and cardiovascular function. Course includes lab component.

BIOL3231 Environmental Physiology

Credits: 3
Prerequisites: 6 credits of Biology, CHEM1106.
Recommended: BIOL2441.
Exclusions: Unavailable to students with credit for BIOL365.

A study of the interactions of organisms with their environment. How does each system respond to external and internal challenges? How does integration help maintain homeostasis? These questions are explored through class, lab and fieldwork. Students are also introduced to physiological instrumentation and experiment design. Course includes lab component. Normally offered every other year.

BIOL3331 Plant Taxonomy

Credits: 3
Prerequisites: BIOL2501 or permission of instructor.
Exclusions: Unavailable to students with credit for BIOL302.

A study of the principles of plant classification with application to personal collections and the evolutionary relationships, origins and distributions of all vascular plants with major emphasis on the angiosperms. Course includes lab component.

BIOL3431 Entomology

Credits: 3
Prerequisites: BIOL2501.
Exclusions: Unavailable to students with credit for BIOL375.

Most kinds of living organisms are insects. Practical skills in collecting insects, identification and curation of collections are developed. These are complemented by an understanding of insect systematics and biology. Course includes lab component. Normally offered every other year.

BIOL3451 Ornithology

Credits: 3
Prerequisites: BIOL2501 and second year standing in a program or permission of the instructor.
Exclusions: Unavailable to students with credit for BIOL387.

An introduction to the biology of birds focusing on evolution, morphology, behaviour, life history and mating systems and communication and conservation. Labs focus on morphology, behaviour and identification, with an emphasis on birds of Eastern Canada and Cape Breton in particular. Course includes lab component.

BIOL3501 Natural History of Cape Breton

Credits: 3
Prerequisites: BIOL2501 and second year standing in a program or permission of instructor.
Exclusions: Unavailable to students with credit for BIOL393.

Field trips to interesting natural areas on Cape Breton highlight this course. Field work focuses on the identification of plants, birds and insects. Assignments focus on the interpretation of the field observations and the ability to communicate clearly to other biologists and the public. Course includes lab component. Normally offered every other year.

BIOL3503 Animal Behaviour

Credits: 3
Prerequisites: BIOL1601 and BIOL2501.
Exclusions: Unavailable to students with credit for BIOL395

Provides opportunities to discover the influence of evolution, genetics, development and physiology on the feeding, antipredator behaviour and mating behaviour of animals. Students participate in the process of science by making and reporting on field observations. Course includes lab component.

Note: A student may complete a maximum of six credits from BIOL3801, 3803, 3804, 3805, 397 and 399.

BIOL3521 Stream Ecology

Credits: 3
Prerequisites: BIOL1601 or BIOL2501 or permission of the instructor.
Exclusions: Unavailable to students with credit for BIOL383.

A study of the interrelationships between the physical and biological aspects of the structure and function of streams with a particular focus on the variety of streams and rivers of Cape Breton. The impact of human activities such as

urbanization, forestry, impoundments and agriculture will be addressed. Most laboratory work will be carried out in the field. Course includes lab component. Normally offered every other year.

BIOL3523 Marine Ecology

Credits: 3
Prerequisites: BIOL2501 ~~or~~ and BIOL2411 or permission of instructor.
Recommended: MATH1109 or PSYC2101.
Exclusions: Unavailable to students with credit for BIOL385.

This course focuses on ecological relationships among marine plants and animals from the perspective of adaptation. Readings from text and primary scientific literature. Field-based laboratories make use of the diversity of coastal marine habitats in Cape Breton. Students are required to do a project and present their results both in writing and orally. Course includes lab component. Normally offered every other year.

BIOL3541 Plant Ecology Cross-listed with MSIT3105

Credits: 3
Prerequisites: BIOL2501.
Exclusions: Unavailable to students with credit for BIOL351 or MSIT351.

The study of Acadian forest systems will continue with an in-depth view of plant assemblages and the relationship to habitat, process, structure and function. Studies will be extended to the non-vascular plants. Relationships and differences between major plant divisions and plant-animal interactions will be considered. Emphasis will be placed on acquiring this knowledge in the field. Course includes lab component. Normally offered every other year.

BIOL3601 Evolution

Credits: 3
Prerequisites: BIOL2101 and BIOL2501.
Exclusions: Unavailable to students with credit for BIOL367.

Evolution by natural selection is one of the important ideas in Western science and the central concept in modern biology. The focus is on evolution as fact, as theory, natural selection as the major mechanism, and its genetic basis.

BIOL3801, 3803 Directed Study in Biology

Credits: 3

An in-depth literature study in an area not covered by other biology courses. Registration is contingent upon availability of a faculty supervisor. In the term preceding the expected start date for this course, the student must produce an outline of the proposed study. Consult the Department Chair for details.

BIOL3804, 3805 Independent Project in Biology

Credits: 3

A research project in an area of interest. Registration is contingent upon availability of a faculty supervisor. In the term preceding the expected start date for this course, the student must produce a research proposal for the project. Consult the Department Chair for details.

BIOL4121 Advanced Topics in Gene Manipulation and Biotechnology

Credits: 3
Prerequisites: BIOL3121 with a grade of at least 65% or permission of the instructor.

Exclusions: Unavailable to students with credit for BIOL417.

A continuation of the study of molecular biology initiated in BIOL3121. Topics include a description of specialized vectors and advanced procedures and of their use in modern agriculture, industry and medicine. Course includes lab component. Normally offered every other year.

BIOL4201 Neurobiology Cross-listed with PSYC4231

Credits: 3
Prerequisites: BIOL3200 or PSYC3213.
Exclusions: Unavailable to students with credit for BIOL423 or PSYC423.

This course introduces basic anatomical and physiological principles of neuroscience extending from the basic biophysical properties of neurons and glia, to the physiological basis of sensory processing, motor behaviour and learning memory. Differs from PSYC321 in that basic physiology is studied in greater depth and there is no attempt at a general survey of behaviour.

BIOL4241 General Parasitology

Credits: 3
Prerequisites: BIOL2411 and at least 12 credits in Biology.
Exclusions: Unavailable to students with credit for BIOL405.

An introduction to parasitology, citing examples from the protozoans, helminths and arthropods of humans, domestic animals and wildlife. Transmission and impacts on individual hosts and populations are emphasized. Course includes lab component. Offered pending faculty availability.

BIOL4251 Biomechanics

Credits: 3
Prerequisites: BIOL2441.
Exclusions: Unavailable to students with credit for BIOL455.

A study of vertebrate functional morphology focused on locomotion. Discussions include comparative, evolutionary and mechanical aspects of major structures. Gross anatomical and micro anatomical examination are performed on a wide array of specimens. Proficiency in dissection, specimen care and analytical thought are emphasized. Course includes lab component. Normally offered every other year.

BIOL4431 Insect Biology and Systematics

Credits: 3
Prerequisites: BIOL3431, with a mark of at least 70% recommended.
Exclusions: Unavailable to students with credit for BIOL401.

Emphasize insect systematics, phylogenetics, structure, function and biogeography. Through field collections, curation of the CBU collection, oral presentations and research papers, students will develop expertise in these areas of entomology. Course includes lab component. Offered pending faculty availability.

BIOL4453 Ichthyology: The Biology of Fishes

Credits: 3
Prerequisites: BIOL2501 and 9 additional credits in Biology above the 1000 level or permission of the instructor.
Exclusions: Unavailable to students with credit for BIOL485.

A comprehensive look at the evolution and phylogenetic relationships of fishes. Students survey their morphological, physiological, behavioural and ecological adaptations to their aquatic environments. Conservation management of fish habitats will be discussed. The laboratory will include studies of structural diversity, anatomy and osteology, morphometrics, age and growth and other selected topics. Course includes lab component. Normally offered every other year.

BIOL4501 Theoretical Ecology

Credits: 3
Prerequisites: BIOL2501.
Exclusions: Unavailable to students with credit for BIOL475.

Examines a broad spectrum of ecological theories, from optimal individual strategies to population interactions, theories of community, ecosystems and global stability within an evolutionary framework.

BIOL4503 Behavioural Ecology

Credits: 3
Prerequisite: BIOL3503.
Exclusions: Unavailable to students with credit for BIOL495.

Behavioural ecology asks questions about why animals do what they do from an evolutionary perspective. Mate choice, chemical defence, avoidance behaviour, social evolution and foraging preferences may all be considered. Students participate in the process of science by making and reporting on field observations. Course includes lab component. Normally offered every other year.

Note: A student may complete a maximum of six credits from BIOL4801, BIOL4803, BIOL4804, BIOL4805, BIOL497, and BIOL499.

BIOL4505 Monitoring Biodiversity

Credits: 3
Prerequisites: BIOL3331 and BIOL3541 or permission of instructor.
Exclusions: Unavailable to students with credit for BIOL441.

Exploration of key issues and strategies behind ecological monitoring programs including background research, implementation and long-term conduct. Examination of international programs implemented locally (e.g. EMAN and Man in the Biosphere). Discussion of classification systems for natural areas in Nova Scotia and exploration of examples. Course includes lab component. Normally offered every other year.

BIOL4601 Evolutionary Theory

Credits: 3
Prerequisites: BIOL3601.
Exclusions: Unavailable to students with credit for BIOL467.

Students critically assess controversies in evolutionary biology, such as sexual selection, punctuated equilibrium, human origins and HIV evolution. Choice of a topic for investigation is based on an individual's interests and expertise. Students gain expertise in writing, editing and oral presentation of complex ideas. Course includes lab component. Offered pending faculty availability.

BIOL4603 Phylogenetic Systematics

Credits: 3
Prerequisites: BIOL3601 or permission of instructor.

Exclusions: Unavailable to students with credit for BIOL469.

An introduction to the theory and practice of phylogenetic systematics, the predominant methodology for evaluating the interrelationships of organisms. Students will learn the basic techniques of character analysis, tree building and evaluation of phylogenetic hypotheses. Application of methodology to classification, co-evolutionary studies, biogeography and extinction studies. Course includes lab component.

BIOL4801, 4803 Directed Study in Biology

Credits: 3
Prerequisites: 60 credits with an average of 70% in Biology courses completed.

An in-depth literature study in an area not covered by other Biology courses. Registration is contingent upon availability of a faculty supervisor. In the term preceding the expected start date for this course, the student must produce an outline of the proposed study. Consult the Department Chair for details.

BIOL4804, 4805 Independent Project in Biology

Credits: 3
Prerequisites: 60 credits with an average of 70% in Biology courses completed.

A research project in an area of interest. Registration is contingent upon availability of a faculty supervisor. In the term preceding the expected start date for this course, the student must produce a research proposal for the project. Consult the Department Chair for details.

BIOL4900 Honours Thesis in Biology

Credits: 6
Prerequisite: Admission and fourth-year standing in the BSc with Honours Biology program.

Includes the preparation of an original research proposal, completion of the proposed research project, analysis of data, preparation of a written thesis and oral defence of this thesis. Students planning to register in this course must consult the Department Chair in the term preceding the expected start date of the project.

BUSINESS ADMINISTRATION

The Business Administration program offers a solid foundation for careers in numerous fields such as private and public enterprise, cooperatives, and government service. It will also prepare the student for self-employment or for graduate study at the master's or doctoral level in a wide variety of disciplines.

One of the primary objectives of the program is to develop women and men with a sound foundation in business fundamentals together with knowledge of traditional arts and science disciplines. In addition, the structure of the program enables students to concentrate in one of several different areas and to pursue an internship program which combines work terms with study terms.

Business Administration courses are listed under Accounting (ACCT), Finance (FINC), Legal Studies (LEGL), Management (MGMT), Management Science (MGSC), and Marketing (MRKT).

ACCOUNTING (ACCT)

See Accounting list for course descriptions.
Courses marked are also offered by distance.

FINANCE (FINC)

See Finance list for course descriptions.
Courses marked are also offered by distance.

LEGAL STUDIES (LEGL)

See Legal Studies list for course descriptions.
Courses marked are also offered by distance.

MANAGEMENT (MGMT)

See Management list for course descriptions.
Courses marked are also offered by distance.

MANAGEMENT SCIENCE (MGSC)

See Management Science list for course descriptions.
Courses marked are also offered by distance.

MARKETING (MRKT)

See Marketing list for course descriptions.
Courses marked are also offered by distance.

CELTIC (CELT)

For courses that can be used towards a Celtic Culture concentration, please review the Celtic Culture program requirements.

CHEMISTRY (CHEM)

Chemistry is the science of change that affects virtually all other scientific disciplines and is essential to many new technological developments. The study of chemistry is fundamental to programs in biology, medicine, nursing, food science, pharmacy, engineering, oceanography and environmental science and the discipline itself. A course in chemistry is also of great value to the student intending to pursue studies in law, business administration, political science, psychology and many other programs, for it provides an understanding of the scientific method and of the chemical basis of today's world. Chemistry is a physical science and as such, places great stress on mathematics and physics. Thus, a student planning a career in Chemistry is advised that performance in these disciplines should be above average.

Please see the Department Chair for program details, department research activities, and student employment opportunities.

CHEM1101 General Chemistry for Nursing and Allied Health Sciences

Credits: 3
Prerequisites: Grade 11 Academic Chemistry.
Recommended: Grade 12 Academic Chemistry.
Exclusions: Unavailable to students with credit for CHEM101, CHEM110, CHEM1104 or CHEM121.
This course does not satisfy the requirements of CBU BSc programs other than the BSc Nursing. It does not satisfy the requirements of BTech or Bachelor of Engineering Technology programs. It does satisfy the requirements for the Bachelor of Health Sciences (Public Health). It is not a sufficient chemistry prerequisite for medical, dental or veterinary programs of study.

The principles of general chemistry for students requiring no more than 6 credits in chemical science. Emphasis is placed on the biological relevance of the chemistry principles discussed and their applicability to the health sciences.

CHEM1103 Introductory Organic Chemistry for Nursing and Allied Health Sciences

Credits: 3
Prerequisites: CHEM1101
Exclusions: Unavailable to students with credit for CHEM102, CHEM110, CHEM1105 or CHEM122.
This course does not satisfy the requirements of CBU BSc programs other than the BSc Nursing. It does not satisfy the requirements of BTech or Bachelor of Engineering Technology programs. It does satisfy the requirements for the Bachelor of Health Sciences (Public Health). It is not a sufficient chemistry prerequisite for medical, dental, or veterinary programs of study.

The principles of organic and biochemistry for students requiring no more than 6 credits in chemical science. Emphasis is placed on the biological relevance of the chemistry principles discussed and their applicability to the health sciences.

CHEM1104 General Chemistry I

Credits: 3
Prerequisites: Grade 12 with a grade of at least 60% **OR** 3 credits in a lab science and 3 credits in mathematics.
Exclusions: Unavailable to students with credit for CHEM121, CHEM1101 or CHEM101.

A description of the properties of matter and their correlation with modern theoretical principles of chemistry. Topics include: atoms, molecules, and ions; formulas and equations; the Periodic Table; electronic structure of atoms; chemical bonding, and gases and change of state. Course includes lab component.

CHEM1105 General Chemistry II

Credits: 3
Prerequisites: CHEM1104
Exclusions: Unavailable to students with credit forCHEM122, CHEM1103 or CHEM102.

Topics include intermolecular forces in solids, liquids, gases and change of state; enthalpy; entropy, and free energy. Rates of reaction, reaction mechanisms, equilibrium, acid-base reactions, electrolytes and voltaic cells and overview of organic chemistry. Course includes lab component.

CHEM2201 Chemical Thermodynamics

Credits: 3
Prerequisites: CHEM1105 and MATH1206.
Exclusions: Unavailable to students with credit for CHEM201.

The theoretical basis of the fundamental principles of chemistry will be discussed. The emphasis is on derivations and the physical meaning of these. Topics include thermodynamics, solutions and phase equilibria. Students will be introduced to data handling by computer. Course includes lab component.

CHEM2203 Chemical Kinetics and Equilibrium

Credits: 3
Prerequisites: CHEM1105 and MATH1206.
Recommended: CHEM2201.
Exclusions: Unavailable to students with credit for CHEM202.

This course will examine the kinetics and equilibria of chemical systems. Topics include molecular kinetic theory of gases; rates of chemical reactions, both experimentally and theoretically; and the equilibria of chemical reactions. Laboratory experiments will focus on the techniques and instrumentation used to study chemical kinetics and equilibria. Students will be introduced to data handling by computer. Course includes lab component.

CHEM2301 Introductory Organic Chemistry I

Credits: 3
Prerequisites: CHEM1105.
Exclusions: Unavailable to students with credit for CHEM221.

This course is an introduction to the chemistry of carbon compounds, both aliphatic and aromatic, and involves a survey of the major functional groups. Emphasis is placed on the close connections between modern organic, biology and biochemistry. Course includes lab component.

CHEM2303 Introductory Organic Chemistry II

Credits: 3
Prerequisites: CHEM2301.
Exclusions: Unavailable to students with credit for CHEM222.

This course introduces the student to the major types of organic reactions. Reaction mechanisms and the role of intermediates are discussed, as are topics in stereochemistry and spectroscopy, IR, NMR, UV-VIS and mass spectroscopy. Course includes lab component.

CHEM2401 Industrial Chemistry

Credits: 3
Prerequisites: CHEM2301.
Exclusions: Unavailable to students with credit for CHEM245.

The course covers practical applications of chemistry to industry. Review of typical chemical industries and modern production plants in Canada and around the world. Review of activities of and visits to chemical industries in Atlantic Canada. Chemical terms and nomenclatures, basic process calculations, and flowcharts. Basic principles of processing equipment, distillation units, reactors, heat exchangers, scrubbers, and driers. Introductory material and energy balances. Inorganic chemical processes for phosphoric acid, super phosphate, ammonia, synthesis gas, sulphuric acid. Organic chemical processes from petroleum, natural gas, crude oil, bitumen, lubricants properties and processing. Petrochemical processes, polymer and resins precursors, and synthetic rubber. Course includes lab component.

CHEM2403 Introductory Analytical Chemistry

Credits: 3
Prerequisites: CHEM1105.
Exclusions: Unavailable to students with credit for CHEM285.

An intensive study of chemical equilibria including acid/base, precipitation, complex and electrochemical as well as statistical methods for analyzing data and some instrumental methods of analysis. Laboratories involve the quantitative analysis of unknowns. Course includes lab component.

CHEM2501 Introductory Inorganic Chemistry

Credits: 3
Prerequisite: CHEM1105.
Exclusions: Unavailable to students with credit for CHEM255.

The fundamentals of Inorganic Chemistry involving a study of the electronic structure, properties, reactivity and bonding characteristics of the main group elements. Laboratory experiments involve qualitative analysis of these elements and their compounds. Course includes lab component.

CHEM2601 Introductory Biochemistry

Credits: 3
Prerequisites: CHEM2301
Exclusions: Unavailable to students with credit for CHEM261.

A study of the unifying concepts of biochemistry, the structure of proteins, enzymes, nucleic acids, carbohydrates, lipids and a brief introduction to their metabolism. Course includes lab component.

CHEM3201 Mathematics for Chemistry I Cross-listed with 2113

Credits: 3
Prerequisites: MATH1105 or equivalent and 9 credits in Chemistry.
Exclusions: Unavailable to students with credit for CHEM301 or MATH251.

Topics covered will include the application of ordinary differential equations, vector algebra, matrices, determinants and operators to such areas of chemistry as point group theory, modern molecular orbital theory, factor analysis and eigenvalue problems. Course includes lab component. Normally offered every other year.

CHEM3203 Mathematics for Chemistry II Cross-listed with MATH2214

Credits: 3
Prerequisites: MATH1105 or equivalent, 9 credits in Chemistry and an introductory course in computing applications.
Exclusions: Unavailable to students with credit for CHEM302 or MATH252.

An overview of modern computer applications in chemistry. Topics will include use of software packages for molecular modeling, solution of simultaneous linear equations, linear and nonlinear least squares, regression on systems with two and three parameters and interpolation of experimental data. Course includes lab component. Normally offered every other year.

CHEM3204 Symmetry and Molecular Spectroscopy

Credits: 3
Prerequisites: CHEM1105, MATH1206, PHYS1204 and at least third year academic standing or permission of the instructor.
Exclusions: Unavailable to students with credit for CHEM305.

This course will introduce students to group theory and its application in molecular spectroscopy. The molecular basis of electronic, rotational and rotational-vibrational spectroscopies will be studied. Course includes lab component. Normally offered every other year.

CHEM3301 Intermediate Organic Chemistry

Credits: 3
Prerequisites: CHEM2303.
Exclusions: Unavailable to students with credit for CHEM325.

A study of organic reaction mechanisms, condensation reactions, symmetry-controlled reactions and a survey of heterocyclic chemistry. Course includes lab component. Normally offered every other year.

CHEM3401 Analytical Spectroscopy

Credits: 3
Prerequisites: CHEM2303 or CHEM2403.
Exclusions: Unavailable to students with credit for CHEM385.

The principles of operation and selected applications of modern spectrochemical methods of analysis. Emphasis is placed on instrument components. Course includes lab component. Normally offered every other year.

CHEM3403 Analytical Separations

Credits: 3
Prerequisites: CHEM2303 or CHEM2403.
Exclusions: Unavailable to students with credit for CHEM386.

The applications of separation techniques to chemical analysis. The theoretical principles of various instrumental methods are explained and applications are examined. Emphasis is placed on HPLC and GC/MS. Course includes lab component. Normally offered every other year.

CHEM3404 Fundamentals of Chemical Engineering Cross-listed with ENGI2165

Credits: 3
Prerequisites: Second year standing and CHEM1105 and MATH1206.
Exclusions: Unavailable to students with credit for CHEM345.

Preliminary terms and concepts are reviewed, followed by the presentation of fundamental thermodynamic properties including heat and work. These properties, along with the zeroth, first and second laws of thermodynamics, are used to examine various closed and open thermodynamic systems. Related topics introduced during this examination include reversibility, thermal efficiency, entropy and energy. The course concludes with an understanding of gas and vapour power cycles. Course includes lab component.

CHEM3501 Intermediate Inorganic Chemistry

Credits: 3
Prerequisites: CHEM2501.
Exclusions: Unavailable to students with credit for CHEM355.

This course is a continuation of CHEM2501 with an emphasis on the transition metals, lanthanides, and actinides. The chemical and physical properties of their compounds are discussed using modern bonding theories. The lab component will involve the preparation and characterization of compounds discussed in class. Course includes lab component. Normally offered every other year.

CHEM3601 Intermediate Biochemistry

Credits: 3
Prerequisites: CHEM2601.
Exclusions: Unavailable to students with credit for CHEM365.

The metabolism of the substances studied in CHEM2601 is discussed in more detail. Course includes lab component.

CHEM3801, 3803 Directed Study in Chemistry

Credits: 3

Research in an area not covered by other chemistry courses. See the Department Chair for details.

CHEM4201 Quantum Chemistry

Credits: 3
Prerequisites: CHEM1105, MATH1206, PHYS1204 and at least third year academic standing or permission of instructor.
Exclusions: Unavailable to students with credit for CHEM405.

The theoretical basis of chemistry will be derived and discussed. Students are introduced to quantum theory and its application in atomic and molecular electronic structure. Course includes lab component. Normally offered every other year.

CHEM4301 Advanced Organic Chemistry

Credits: 3
Prerequisites: CHEM2303 or CHEM3301.
Exclusions: Unavailable to students with credit for CHEM425.

A survey of developments in current organic chemistry. This course will both round out the student's knowledge of carbon chemistry and integrate that knowledge with the other disciplines of chemistry, particularly physical organic chemistry. Course includes lab component. Normally offered every other year.

CHEM4401 Polymer Chemistry

Credits: 3
Prerequisites: CHEM3301 and CHEM3501 or instructor's permission.
Exclusions: Unavailable to students with credit for CHEM445.

Involves the chemistry of macromolecules, definitions of polymeric materials, different examples of synthetic and natural polymers and rubber elasticity, monomer and polymer nomenclature, polymerization reactions, techniques, reactivity and kinetics, molecular weight distribution, measurements and control, and synthesis, analysis, structure-property characterization and rheological behaviour of polymers. Normally offered every other year.

CHEM4501 Organometallic Chemistry

Credits: 3
Prerequisites: CHEM2303 and CHEM2501 or CHEM3501.
Exclusions: Unavailable to students with credit for CHEM456.

A detailed look at concepts used in modern organometallic chemistry for synthetic laboratory research and current industrial processes. Topics that will be covered include the carbon-metal bond, heterogeneous catalysis and

homogeneous catalysis, high vs. low density polyethylene, transition metal catalyzed polymerizations, asymmetric catalysis and Pd catalyzed organic transformations. Normally offered every other year.

CHEM4403 Selected Topics in Advanced Analytical Chemistry

Credits: 3
Prerequisites: CHEM2303, and CHEM3401 or CHEM3403.

The application of techniques such as Atomic Absorption (AA), Mass Spectrometry (MS), and Polarography to trace analyses. Reducing interferences, using blanks, performing replicate analyses, and recovery studies will be emphasized. Course includes lab component. Normally offered every other year.

CHEM4900 Honours Thesis in Chemistry

Credits: 6
Prerequisites: Admission and fourth-year standing in the BSc Honours Chemistry program

This course includes the preparation of an original research proposal, completion of the proposed research project, analysis of the data, preparation of a written thesis and oral defence of this thesis. Students planning to register in this course must consult the Department Chair in the term preceding the expected start date of the project. Consult the Department Chair for details. A three member panel (the faculty supervisor, a second chemistry faculty member and a third member agreed upon by the supervisor and the student) will evaluate the written thesis and oral defence.

CHEM4801 Independent Project in Chemistry

Credits: 3

Normally this course will be completed in the student's final year.

CHEMISTRY – TECHNOLOGY (CHEM)

CHEM 2404 Environmental Chemistry I

Credits: 3
Prerequisites: CHEM1104 and CHEM1105 or permission of instructor.
Exclusions: Unavailable to students with credit for CHEM213.

The course begins with a review of the fundamental chemical principles relevant to aqueous systems. This is followed by an examination of the primary water quality parameters, analysis methods and treatment strategies presently utilized in the study of water/wastewater. The laboratory portion of the course involves specific sampling and analysis procedures. Course includes lab component.

COMMUNICATION (COMM)

Communication is a humanistic, philosophic and scientific field of study, research and application. It calls for dynamic personal involvement and a critical analysis of communication in all aspects of society including relationships, culture, history and technology. Communication graduates find employment in government, public relations, human resources, training and development, politics, media, etc. Students are also prepared for acceptance into advanced degree programs in education, law and of course, communication.

The department houses the Dr. Mary A. Lynch Lab, used for small group work associated with introductory courses. Noted as the longest serving lab in North American communication programs, it provides opportunities for students to put

into practice the theories they learn in class. Peer student facilitators are trained to conduct the labs and facilitators report that they gain both personally and professionally from their service learning experiences.

COMM1103 Introduction to Interpersonal Communication

Credits: 3
Exclusions: Unavailable to students with credit for COMM103.

An introductory course designed to raise student awareness of the complexity and power of interpersonal communication in daily life; to provide students with personally relevant concepts of interpersonal communication; and to help students develop their interpersonal communication skills. Lab component required.

COMM1105 Introduction to Public Communication

Credits: 3
Exclusions: Unavailable to students with credit for COMM105. Students may receive credit for not more than one of the following communication courses COMM1105, COMM1109 or COMM1151.

An introductory course designed to give the student a well-rounded basis in communication. Students learn public communication theory and develop their communication cognitively, affectively and behaviorally by taking part in interviews, small group discussions and public speaking. Lab component required.

COMM1107 Introduction to Linguistics Cross-listed with ANTH1101, MIKM1145

Credits: 3
Exclusions: Unavailable to students with credit for COMM107, ANTH107 or MIKM107.

An introduction to the scientific study of language, including phonology, morphology, syntax, semantics, and the heritage languages of Cape Breton: Mi'kmaq, French, Gaelic and English.

COMM1109 Communication in the Workplace

Credits: 3
Exclusions: Unavailable to students with credit for COMM109. Students may receive credit for not more than one of the following communication courses COMM1105, COMM1109, or COMM1151

Communication principles in the workplace including the development of intra-interpersonal communication skills and professional speaking.

COMM1151 Professional Presentations

Credits: 3
Exclusions: Unavailable to students with credit for COMM115. Students may receive credit for not more than one of the following communication courses COMM1105, COMM1109 or COMM1151

Skills in chairing meetings, making interesting presentations, incorporating various media into public communication and producing video resumes.

COMM2101 Research Concepts

Credits: 3
Exclusions: Unavailable to students with credit for COMM261.

A review of research methods typically used throughout the discipline and understanding of, and practice in, research design.

COMM2103 Nonverbal Communication

Credits: 3
Exclusions: Unavailable to students with credit for COMM203.

An exploration of various nonverbal message systems, which include body movement, eye and facial behaviour, vocal cues, physical appearance, clothing, space, time and symbolic behaviour in human interaction.

COMM2111 Rhetoric in Popular Culture

Credits: 3
Exclusions: Unavailable to students with credit for COMM251.

An exploration of popular culture (movies, music, television, computers, cell phones, tattoos, etc.) We discuss how we make meaning and interpret meaning of popular culture in a rhetorical context.

COMM2151 Voice Production

Credits: 3
Exclusions: Unavailable to students with credit for COMM201.

Voice and speech production, with attention on improving vocal quality, articulation and pronunciation through the utilization of informal, formal and electronic settings.

COMM2153 Effective Interview Techniques

Credits: 3
Exclusions: Unavailable to students with credit for COMM215.

Foundations of interviewing within the broader context of basic communication theory, applying interview principles and practices in various interview genres.

COMM2155 Argumentation and Debate

Credits: 3
Exclusions: Unavailable to students with credit for COMM205.

Theoretical and experiential knowledge of argumentation and debate. Participation in class debates with and without a partner.

COMM2171 Survey of Canadian Media

Credits: 3
Exclusions: Unavailable to students with credit for COMM271.

Discusses various forms of media (film, television, radio, etc.) from the production side of the media process with special emphasis on Canadian context and content.

COMM2173 Videography

Credits: 3
Exclusions: Unavailable to students with credit for COMM273.

Covers techniques of composition, camera use, editing and aesthetics; application of broader communication theories to independent work on video production and effective presentation of ideas, stories and cultural works. Laboratory and/or tutorial component included.

COMM2175 Issues in Media Studies

Credits: 3
Exclusions: Unavailable to students with credit for COMM255.

A survey of issues in communication media such as stereotyping, violence, gender, objectivity, ethics, culture and values. Lab component required.

COMM2177 Graphic Design for Media

Credits: 3
Exclusions: Unavailable to students with credit for COMM277.

Covers composition, layout, typography, colour and other elements of visual design and applies them to a variety of media. Some aspects of the course will require computer applications.

COMM3101 Organizational Communication

Credits: 3
Exclusions: Unavailable to students with credit for COMM305.

An introduction to the philosophy, process, problems and potential of human communication within an organizational context.

COMM3103 Interpersonal Relationships

Credits: 3
Exclusions: Unavailable to students with credit for COMM311.

Advanced interpersonal communication including theories, research and concepts examining relationships.

COMM3109 Strategic Corporate Communication

Credits: 3

This course will give students an awareness of connections between communication theory and effective corporate communications.

COMM3111 Communication and Culture

Credits: 3
Exclusions: Unavailable to students with credit for COMM353.

The close connections between communication and culture and the ways cultures are constructed communicatively.

COMM3112 Public History and Museology **Cross-listed with HIST3112**

Credits: 6
Prerequisite: Any 6 credits from Group 2 or by permission from the instructor.
Exclusions: Unavailable to students with credit for COMM380, HIST380, or HERT350.

An overview of museum and heritage institutions over the past two centuries and how different nations, communities, and cultures interpret their history to the general public.

COMM3113 Intercultural Communication

Credits: 3
Exclusions: Unavailable to students with credit for COMM307.

Communication between individuals of different cultures and subcultures and practical guidelines for mitigating miscommunication across cultures.

COMM3115 Communication and Social Change

Credits: 3
Exclusions: Unavailable to students with credit for COMM355.

Examines the ideologies and conditions of the premodern, modern and postmodern social worlds as understood through their manifestations in cultural and technological change.

COMM3117 Communication and Community

Credits: 3
Exclusions: Unavailable to students with credit for COMM319.

This course allows students to analyze concepts about community and communication as they relate to concepts about the public sphere, media, globalization, sustainability, social capital and interpersonal relationships. In particular it explores the symbolic construction of community and identity, participatory democracy, communitarianism, and the role of mass media in community. Students investigate their own communities as case studies.

COMM3131 Communication Training and Development

Credits: 3
Prerequisites: 6 credits fromCOMM1103, COMM1105 or COMM2175 and an additional 6 credits in Communication or permission of the instructor.
Exclusions: Unavailable to students with credit for COMM321.

An examination of theoretical and practical applications of facilitation in educational contexts. Learning styles, communication models and facilitation strategies are examined.

COMM3133 Leadership in Small Group Contexts

Credits: 3
Exclusions: Unavailable to students with credit for COMM325.

This course examines the communication components of small group and team interaction as they pertain to leadership and leadership emergence. Topics include communication characteristics of small groups, group norms and rules, group goals and motivations, sending and receiving messages, conflict resolutions and decision making processes.

COMM3136 Persuasion

Credits: 3
Exclusions: Unavailable to students with credit for COMM303.

Philosophical, psychological and communication foundations of persuasion and the role persuasion plays in a person's life.

COMM3139 Issues in Health Communication

Credits: 3
Exclusions: Unavailable to students with credit for COMM309.

An examination of the ways the personal, cultural and political circumstances influence how we experience and communicate about health and health issues. We explore how we communicate about health at different stages of our lives. Finally, we consider the communication competencies we can develop to help us better understand health information, work with health organizations and develop as health citizens and advocates.

COMM3155 Advanced Public Speaking

Credits: 3
Prerequisites: COMM1105
Exclusions: Unavailable to students with credit for COMM301.

Public communication theory aimed at improving communication effectiveness by constructing and delivering informative, engaging and persuasive presentations.

COMM3170 Multimedia Design

Credits: 6
Prerequisites: COMM2171 or permission of instructor.
Exclusions: Unavailable to students with credit for COMM322.

Conceptual and application theory required for professional level skills in the use of digital communication media. Emphasis is on the development of design technique and the visual aspects of multimedia production focusing on film and digital video. Students will complete a major project utilizing the skills developed in class.

COMM3135 Family Communication

Credits: 3
Exclusions: Unavailable to students with credit for COMM333.

Examines communication patterns and networks within families that support or inhibit cohesion or change. Topics include family systems, communication patterns, self-disclosure, family themes, rules, relational stages, conflict styles, power and decision-making. Focus is on developing functional family networks and effective communication skills.

COMM3137 Gender and Communication

Credits: 3
Exclusions: Unavailable to students with credit for COMM345.

The communication similarities and differences between women and men in various communication contexts.

COMM3138 Women and Communication

Credits: 3
Exclusions: Unavailable to students with credit for COMM347.

Communication as it pertains to various aspects of women's lives and how contexts and cultural ideologies specifically affect women and their communication.

COMM3172 Anthropology of Media

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology or by permission of the instructor.
Exclusions: Unavailable to students with credit for COMM314/ANTH314.

The bottom-up study of people's engagements with modern mass media, using ethnography to understand the social and cultural effects of mass media at the ground level. television, movies and the internet, situated in diverse social and cultural settings world wide, will be the focus of the course.

COMM3173 Mass Communication and Society

Credits: 3
Exclusions: Unavailable to students with credit for COMM357.

The history of mass communication and the impact of technological change on human societies.

COMM3171 Computer-Mediated Communication

Credits: 3
Exclusions: Unavailable to students with credit for COMM359.

This course is an eclectic overview of practical and scholarly approaches to computer-mediated communication (CMC) intended both for those with limited experience with CMC and those who use CMC regularly.

COMM3151 Performance Studies

Credits: 3
Exclusions: Unavailable to students with credit for COMM335 or COMM235.

Explores how performance acts that are embedded in our everyday world are used to learn about ourselves and culture, to reflect on experience and to act on the world and the self.

COMM3700 Special Topics in Communication

Credits: 6
Prerequisites: Six credits in communication.
Exclusions: Unavailable to students with credit for COMM335 or COMM235.

In-depth study and applications related to specific issues in communication theory and research, rhetoric and media studies, and applied communication.

COMM3701, 3703 Selected Topics in Communication

Credits: 3, 3
Prerequisite: 6 credits in Communication.
Exclusions: COMM351

Designed for upper-level students who are interested in a listed course that is not being offered during the current academic year. Students should consult the Department Chair for details and permission.

COMM3931 Facilitation Practicum

Credits: 3
Prerequisites: COMM3131 and permission of the instructor and Lab Coordinator.
Exclusions: Unavailable to students with credit for COMM323.

A 160-hour practicum that provides students with an opportunity to develop and strengthen their applied communication facilitation skills in an educational context while gaining first-hand experience in the design and delivery of communication training programs.

COMM4101 Rhetorical Theory

Credits: 3
Prerequisite: 6 credits in Communication.
Exclusions: Unavailable to students with credit for COMM401.

Examination of the nature of rhetoric through reading and discussing critical and theoretical works from classical to contemporary rhetoricians.

COMM4103 Communication Criticism

Credits: 3
Prerequisite: 6 credits in Communication.
Exclusions: Unavailable to students with credit for COMM403.

Critical evaluation of messages in a wide variety of communicative genres.

COMM4104 Sustainable Happiness **Cross-listed with EDUC4104.**

Credits: 3
Exclusions: Unavailable to students with credit for COMM435 or EDUC435.

This course will introduce students to the research on happiness and subjective well-being that is emerging from the field of positive psychology. Students will also explore the impact that individual and national pursuits of happiness have on the well-being of people around the world and the natural environment through literature related to sustainability. Opportunities for engaging in sustainable happiness that does not exploit other people, the environment or future generations will be addressed.

COMM4105 Theories of Human Communication

Credits: 3
Prerequisite: 6 credits in Communication.
Exclusions: Unavailable to students with credit for COMM405.

The development of communication theory in the twentieth century in both the humanistic and social scientific approaches to communication study.

COMM4700 Special Topics in Communication

Credits: 6

Designed for upper-level students who are interested in a listed course that is not being offered during the current academic year. Students should consult the Department Chair for details and permission.

COMM4701/4703 Special Topics in Communication

Credits: 3, 3

Designed for upper-level students who are interested in a listed course that is not being offered during the current academic year. Students should consult the Department Chair for details and permission.

COMM4800 Directed Study

Credits: 6
Prerequisites: At least 30 credits in Communication and an overall average of 70% in Communication.

This course offers an advanced student of exceptional ability the opportunity to pursue individualized study in an area not otherwise offered in the course listings. Students should consult the Department Chair for details and permission.

COMM4900 Senior Thesis

Credits: 6
Prerequisites: At least 30 credits in Communication and an overall average of 70%.

An original research paper in which the student performs an in-depth study of an area of communication. The thesis must be a work of exceptional scholarship and is designed to prepare students for graduate programs or related further study. Students should consult the Department Chair for details and permission.

COMM4910 Honours Thesis

Credits: 6
Prerequisites: At least 42 credits in Communication with an overall average of 70%.

An original research paper in which the student performs an in-depth study of an area of Communication. The thesis must be a work of exceptional scholarship, and is designed to prepare students for graduate programs or related further study. Students should consult the Department Chair for details and permission.

COMPUTER APPLICATIONS – ENGINEERING TECHNOLOGY (COMP)

COMP1163 Computer Applications I

Credits: 3
Exclusions: Unavailable to students with credit for COMP101.
Satisfies the BSc computer proficiency requirement.

A hands-on course which emphasizes the everyday use of computer technology with MS Office for Windows XP. Includes study of Windows, the Internet, word-processing, spreadsheets, database management and programming with VB.Net. The graphical user interface, Windows, will be used to integrate all software. Laboratory tutorial assignments reinforce course objectives.

COMMUNITY STUDIES (COMS)

These courses are the core requirements of the Bachelor of Arts Community Studies degree program.

Courses marked 🖱 are also offered by distance.

🖱COMS1100 Intoduction to Community Studies

Credits: 6
Exclusions: Unavailable to students with credit for COMS110.
Core course in the BACS degree program and an elective in other programs.

Within the context of a small group, students are encouraged to develop and employ a variety of skills including problem solving, critical analysis, research and writing. Both individual and group projects are required.

🖱COMS2100 Applied Research

Credits: 6
Prerequisites: 30 credits including COMS1100.
Exclusions: Unavailable to students with credit for COMS210.

Students engage in group projects which apply the problem-solving skills of the first year and develop additional abilities and techniques of primary research, analysis, and evaluation.

🖱COMS2101 Community Volunteer Work I

Credits: 3
Prerequisites: 30 credits including COMS1100 or permission of Department Chair.
Exclusions: Unavailable to students with credit for COMS251.

A 160-hour volunteer work placement that is relevant to the student's career interest and plans.

🖱COMS3100 Community Intervention

Credits: 6
Prerequisites: 60 credits including COMS1100, COMS2100, COMS2101.
Exclusions: Unavailable to students with credit for COMS310.

Students working together in small groups execute a plan of community intervention based on their research, a needs assessment, and strategic plan. Includes completion of a written report.

🖱COMS3101 Community Volunteer Work II

Credits: 3
Prerequisites: 60 credits including COMS1100, COMS2100, COMS2101.
Exclusions: Unavailable to students with credit for COMS351.

Students explore issues relating to their career interests through a second 160-hour volunteer work placement.

COMS4100 Self Directed Senior Project

Credits: 6
Prerequisites: 90 credits including COMS1100, COMS2100, COMS2101, COMS3100, COMS3101.
Exclusions: Unavailable to students with credit for COMS410.

A course in which the student undertakes a research project in an area of interest to future education or career plans.

COMS0100 Police Preparatory Course

Credits: 0
Exclusions: Unavailable to students with credit for NOCR900.

This is a non-credit course that assists students in preparation for a career as a police officer. The course includes: policing career options, identification and forensics, police ethics, human rights, test anxiety counseling, crime prevention through social development, community policing, résumé development, physical fitness (PARE) preparation, range, drill and seminars with the Cape Breton Regional Police Service, RCMP and CBU faculty and staff. Past students have successfully completed police training programs at the Atlantic Police Academy in Prince Edward Island and RCMP training in Regina, Saskatchewan.

DRAFTING – ENGINEERING TECHNOLOGY (DRAF)

DRAF1163 Industrial Applications of Drafting

Credits: 3
Prerequisites: ENGI1165.
Exclusions: Unavailable to students with credit for DRAF126.

This is an advanced course in drafting. The focus of this course is on the industrial applications of drafting. Students will learn the details of multi-disciplined drawings for electrical, petroleum, environmental and manufacturing engineering technology. Topics include schematics, print circuit boards, gears and cams. Detailed and industrial applications of technical drawings using advanced AutoCAD applications are employed. This is a required course for all disciplines of technology.

DRAMA (DRAM)

All courses in this section can be used towards a Theatre Arts Certificate (please see Theatre Arts Certificate program requirements for further information) and to satisfy the Group 4 BA core requirement.

DRAM1101 Introduction to Play Production

Credits: 3
Exclusions: Unavailable to students with credit for ENGL307 or FINA307.
Cannot satisfy the Group 1 BA core requirement.

An introduction to play production that includes lectures, discussions, practical demonstrations of sound and lighting and video programs on live theatre.

DRAM2101 Introduction to Acting

Credits: 3
Prerequisite: DRAM1101 or permission of the instructor and Department Chair.
Exclusions: Unavailable to students with credit for ENGL309 or FINA309.
Cannot satisfy the Group 1 BA core requirement.

A practical course in acting for live theatre: voice projection, movement, gesture and characterization.

DRAM2201 Introduction to Theatre Directing

Credits: 3
Prerequisites: DRAM1101.
Exclusions: Unavailable to students with credit for DRAM201, ENGL309 or FINA309
Cannot satisfy the Group 1 BA core requirement

A practical course in acting for live theatre: voice projection, movement, gesture and characterization.

DRAM2203 Theatre for Children

Credits: 3
Prerequisites: DRAM101/1101 or permission of instructor.
Exclusions: Unavailable to students with credit for DRAM221, FINA219.

A study of creativity, children and the developmental aspects of play, including the role of the creative leader as it relates to such forms as tableaux, choral reading, creative writing, sensory awareness and creative movement.

DRAM2621 Playwriting I **Cross-listed with ENGL2624**

Credits: 3
Cannot satisfy the Group 1 BA core requirement.
Exclusions: Unavailable to students with credit for DRAM331, ENGL303 or FINA303.

An introduction to the art and craft of writing dramatic texts for live theatre. The course will focus on monologues, atmosphere and scene. Students are required to attend a number of Dramagroup productions as well as any touring productions.

DRAM2623 Playwriting II **Cross-listed with ENGL2625**

Credits: 3
Prerequisites: DRAM2612 or permission of the instructor.
Exclusions: Unavailable to students with credit for DRAM333, ENGL323 or FINA319.
Cannot satisfy the Group 1 BA core requirement.

Further extension of the art and craft of writing dramatic texts for live theatre. The course will focus on dialogue and the development of scenes. Students will complete a one-act play in final draft. Attendance at theatre productions is required.

DRAM3101 Movement for the Theatre

Credits: 3
Exclusions: Unavailable to students with credit for FINA213.

This course is directed to student actors and teachers of acting who want to add a larger component of meaningful movement to their acting or teaching techniques.

DRAM3103 Voice for the Theatre

Credits: 3
Exclusions: Unavailable to students with credit for FINA211.

Through practical exercises, this course introduces the student to voice training for the theatre.

DRAM3104 Stagecraft

Credits: 3
Prerequisites: DRAM1101 or permission of the instructor.
Exclusions: Not available to students with credit for DRAM311

This course covers all that the aspiring stage worker needs to know about properties, scenery, painting, sets, lighting and sound.

DRAM3105 Stage Management

Credits: 3
Prerequisites: DRAM1101 or permission of the instructor.
Exclusions: Not available to students with credit for DRAM313

Through practical exercises, this course introduces the student to voice training for the theatre.

DRAM3901 Drama Practicum

Credits: 3
Exclusions: Not available to students with credit for DRAM399

ECONOMICS (ECON)

Economics 1101 and 1103 are prerequisites or co-requisites for upper level courses in economics unless otherwise specified. (Changes are pending. Please refer to online calendar for updates.)

Courses marked 🖱 are also offered by distance.

🖱 **ECON1101 Principles of Microeconomics**

Credits: 3
Exclusions: Unavailable to students with credit for ECON101.

The nature and scope of economics. Topics include scarcity and choice, consumer behaviour, demand and supply, elasticity, the theory of the firm, income distribution and applications.

🖱 **ECON1103 Principles of Macroeconomics**

Credits: 3
Exclusions: Unavailable to students with credit for ECON102.

Topics include national income determination, unemployment, inflation, fiscal policy, the central bank, monetary policy, international trade and the balance of payments.

ECON2101 Intermediate Microeconomic Analysis

Credits: 3
Prerequisites: ECON1101 and ECON1103.
Exclusions: Unavailable to students with credit for ECON201.

Designed to provide a firmer grasp of economic theory. Includes a comprehensive survey of microeconomic theory and its application to everyday economic problems.

ECON2103 Intermediate Macroeconomics Analysis

Credits: 3
Prerequisites: ECON1101 and ECON1103.
Exclusions: Unavailable to students with credit for ECON202.

The study of the major macroeconomic theories focusing on the Keynesian and the monetarist models within the domestic and international economy.

ECON2105 Quantitative Methods for Economists

Credits: 3
Prerequisites: ECON1101 and ECON1103 and grade 12 Academic Math.
Exclusions: Unavailable to students with credit for ECON205.

Designed to meet the requirements of quantitative methodology for a comprehensive program in economics.

ECON2106 Canadian Economic Issues and Problems

Credits: 3
Exclusions: Unavailable to students with credit for ECON221.
Required for BBA Economics Concentration.

Application of microeconomic and macroeconomic approaches to the study of Canadian economic problems, issues, policies and programs in global perspectives. The emphasis is on path-dependent methodology using economy-institution interaction. Conceptual and empirical approaches are emphasized.

ECON2107 Labour Economics

Credits: 3
Prerequisites: ECON1101 and ECON1103.
Exclusions: Unavailable to students with credit for ECON241.

The theory of labour economics with particular emphasis on the Canadian labour market.

ECON2140 Law and Society Cross-listed with POLS2140

Credits: 6
Exclusions: Unavailable to students with credit for ECON212, ECON112, POLS212 or POLS112.

This course provides an introduction to the study of law, government and the economy. It provides an understanding of leading social, political and economic issues and the impact of these issues on our life.

ECON3101 Money and Banking I

Credits: 3
Prerequisites: ECON1101 and ECON1103.
Exclusions: Unavailable to students with credit for ECON301.

An analysis of the Canadian banking system including the role of money, interest rates, financial institutions and the money market.

ECON3103 Money and Banking II

Credits: 3

Prerequisites: ECON1101 and ECON1103.
Exclusions: Unavailable to students with credit for ECON302.

Topics include theories of banking, international finance, financial systems of other countries and central banking.

ECON3105 Managerial Economics

Credits: 3
Prerequisites: ECON1101 and ECON1103 and permission of the instructor.
Exclusions: Unavailable to students with credit for ECON325.

A study in microeconomic decision-making applied to the problems of resource allocation, production, finance and risk assessment at the level of the firm.

ECON3107 Resource Economics

Credits: 3
Prerequisites: ECON1101 and ECON1103.
Exclusions: Unavailable to students with credit for ECON335.

A study of the theory, policies and Canadian experience in the allocation and utilization of exhaustible natural resources, both renewable and non-renewable.

ECON3108 Economic Growth and Development

Credits: 3
Prerequisites: ECON2101 and ECON2103 or permission of the instructor.
Exclusions: Unavailable to students with credit for ECON341.

Provides a comprehensive review of the theories of growth and development in the context of population growth, education, quality of labour force and capital formation. The social, cultural, and political climate will be evaluated in the context of economic modernization.

ECON3109 Economy and Society

Credits: 3
Exclusions: Unavailable to students with credit for ECON343.

This course undertakes a critical and inquiring examination of the theory of an economy embedded in the wider field of social valuation. This theme will be pursued in the context of economic liberalism and the spectrum of social conflicts between the industrialized and developing world at the turn of the century and between social issues and market forces. Various topics are selected in these areas of theory and application.

ECON4105 Investment Theory Cross-listed with FINC4404

Credits: 3
Prerequisites: MGSC1108, MGSC1109, FINC2401, and FINC2403.
Exclusions: Unavailable to students with credit for BUSS442 or ECON375.

Examines the capital investment process emphasizing analytical techniques to evaluate investment proposals. Includes: capital budgeting principles, time value of money, basic measures of capital investment desirability and mutually exclusive investments, cash flow identification, risk analysis, capital rationing, multi- criteria capital budgeting and linear programming.

ECON3701, 3703 Special Topics in Economics

Credits: 3, 3

This course serves to expand on selected areas of economics studied by the student to fulfil the requirements of a major research paper. The topics selected will be mutually acceptable to students and professors.

ECON4101 Public Finance

Credits: 3
Exclusions: Unavailable to students with credit for ECON411.

The theory and application of microeconomics and macroeconomics applied to the study of public goods and resource allocation with institutional intervention in market economics. Topics include social cost-benefit analysis, taxation and fiscal policy, social and public choice, interaction between fiscal and monetary policies, economic stabilization, economic growth with distributive equity and transaction costs in relation to social spending and public goods.

ECON4103 International Economics

Credits: 3
Exclusions: Unavailable to students with credit for ECON421.

A comprehensive examination of the theory, institutions, policies and programs that shape the international economy. Micro and macroeconomic concepts and principles are applied to study the theory of international trade and the issues relating to fiscal, monetary and development policies.

EDUCATION (EDUC)

Courses marked are also offered by distance.

EDUC3100 Music in the Elementary Classroom

Credits: 6
Exclusions: Unavailable to students with credit for EDUC330.

This course is designed for the classroom teacher who wishes to enhance their learning environment. These sessions will integrate many elements throughout the curriculum using speech, rhythm, movement, dance and song. Teachers will find this valuable for developing a variety of literacy skills in their students.

EDUC4100 Art and Creativity

Credits: 6
Exclusions: Unavailable to students with credit for EDUC426.

This course is designed to give basic techniques and skills in visual arts to classroom teachers, P-12, who have limited experience in art making. This course will focus on art education as a growing sequential experience based on the supposition that students build their visual language in the same way as they build their verbal and written language, first by using simple statements and then by compounding them into a more sophisticated form of communication. Specifically, the participants will come to understand visual literacy and to make connections between visual arts and other subjects in the curriculum, including math, science, social studies and language arts. Direct application of the skills and techniques will be made through a variety of media, such as painting, drawing, sculpture, fabric arts and mixed media. By making connections to other subject areas, the participants will build on this understanding and they will discover new and effective strategies for teaching, learning and assessment.

EDUC4101 Sociology of Education

Credits: 3
Registration for this course is limited to Bachelor of Education students only.

In this course, students will explore how Canadian education programs are influenced by the social context within which they are implemented. Students will be introduced to the instructional and social context of teaching. The role of the school in society, the organization and administration of schools and the dynamics of classroom culture will form the basis of the course.

EDUC4102 Creative Music

Credits: 6
Exclusions: Unavailable to students with credit for EDUC428.

This course is for those teachers who have a music degree or strong background experience in music education. The daily program will include pedagogy, basic movement, soprano recorder, and special topics. Instruction will cover Orff techniques, rhythmic and melodic training, improvisation, study of pentatonic scales, the ostinato, simple bordun accompaniments and the elemental form.

EDUC4103 Inclusive Education

Credits: 3
Registration for this course is limited to Bachelor of Education students only.

This course examines the role of the subject/classroom teacher(s) in the program planning process for inclusive classrooms. A variety of situations will be examined with emphasis on inclusionary practices, appropriate classroom accommodations and professional collaboration. Current special education policies, regulations and resources used in the Nova Scotia school system will provide the framework for program planning process. However, comparisons with other jurisdictions will be made. Evaluation in this course will emphasize both knowledge and practical applications. This course encourages active participation.

EDUC4104 Sustainable Happiness Cross-listed with COMM~~4105~~ 4104

Credits: 3
Exclusions: Unavailable to students with credit for EDUC435 or COMM435.

This course will consider happiness and subjective well-being from the perspectives of psychology, communications, interpersonal relationships, community, the environment and ideology by familiarizing students with the research emerging in those areas. Students will also explore the impact that individual and national pursuits of happiness have on the well-being of people around the world and the natural environment. Opportunities for engaging in sustainable happiness (the pursuit of happiness that does not exploit other people, the environment, or future generations) will be addressed. The role of formal and non-formal education in shaping one's view of happiness will be discussed.

EDUC4106 Philosophy and History of Education

Credits: 3
Registration for this course is limited to Bachelor of Education students only.

This course examines the historical and philosophic foundations of education in our socially and culturally diverse environment. Prospective teachers are provided with an opportunity to examine a variety of educational problems from a philosophical perspective. Students will explore the nature of education and their role as professional educators. One of the major goals of the course will be for students to develop and articulate a personal philosophy of education.

EDUC4107 Assessment of and for Learning

Credits: 3
Registration for this course is limited to Bachelor of Education students only.

This course is an introduction to the theory and practice of student evaluation or assessment. The course is designed to provide students with an understanding of the major underlying issues and measurement problems surrounding assessment and will facilitate the student's shift in role from the one being assessed to that of an assessor. Students will examine the process of formulating educational objectives, validity and reliability in student assessment, preparing assessment instruments, scoring, reporting, data analysis and item analysis techniques.

EDUC4108 Integrated Technology

Credits: 3
Registration for this course is limited to Bachelor of Education students only.

This course covers the integration of computer technology used in today's classroom to facilitate learning.

EDUC4111 Facilitating a Comprehensive Literacy Program at the Elementary Level

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4011.
Registration for this course is limited to Bachelor of Education students only.

This course will focus on strategies, methodology and concepts of teaching and assessing language arts at the elementary level. Topics to be addressed include learning modalities, co-operative learning strategies and strategies to teach writing and reading. Technology and cross-curricular literacy will also be an integral part of this course.

EDUC4113 Teaching an Integrated Science Curriculum

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4013.
Registration for this course is limited to Bachelor of Education students only.

This course will model the delivery of a hands-on, active approach to the teaching of scientific concepts. It will emphasize how to enable students to construct their own understanding of the world of science.

EDUC4115 Teaching an Integrated Social Studies Curriculum

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4015.
Registration for this course is limited to Bachelor of Education students only.

This course will introduce teachers to a range of effective strategies to employ in the delivery of an issues-based social studies program. It will focus on issues and themes, which can be easily integrated into all areas of elementary curriculum.

EDUC4116 Mathematics at the Elementary Level

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4016.
Registration for this course is limited to Bachelor of Education students only.

This course will promote a holistic approach to the teaching of mathematics at the elementary level. Participants will explore methodologies for assessing students' progress in mathematics, taking into consideration the various ways of

knowing and learning mathematics. Pre-service teachers will explore the use of math manipulatives and technology as teaching/learning tools, collaborative student work and mathematical literacy.

EDUC4117 Assessment and Curriculum Instruction in Elementary Education

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4017.
Registration for this course is limited to Bachelor of Education students only.

The focus of this course is on an interdisciplinary-integrated approach to curriculum delivery in the elementary classroom. Students will design and implement an integrated curriculum as part of course requirements.

EDUC4118 Principles and Practices of Elementary Education

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4018.
Registration for this course is limited to Bachelor of Education students only.

This course will model an instructional process that is reflective of developmentally appropriate practice. It will emphasize the importance of incorporating effective practices such as teacher-student relationships, classroom management skills and research-based theories of learning.

EDUC4121 Literacy in the Content Areas

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4021.
Registration for this course is limited to Bachelor of Education students only.

Through a constructivist, hands-on approach, this course will allow students to examine the knowledge, skills, and attitudes necessary to effectively implement the relative theory of reading in subject-specific areas such as history, biology, and mathematics. Students will explore theories of literacy and a variety of strategies for reading, writing and studying.

EDUC4128 Principles and Practices of Secondary Education

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4028.
Registration for this course is limited to Bachelor of Education students only.

This course is designed to provide students with the knowledge, skills and understanding required to construct and apply alternative methods of classroom management and discipline. Students will examine contemporary approaches to classroom management and discipline, including a consideration of legal, organizational and administrative issues. Students will gain knowledge and skills in this course that contribute to planning, delivering and evaluating teaching. Furthermore, the course will also emphasize ways to promote desired learning outcomes. The course illustrates specific ways to create a classroom that is a safe and comfortable space in which students and teachers with common goals can work successfully together. Students will be introduced to several models of classroom management, with an emphasis on the constructivist model. The major goal of the course is to enable students to comprehend the basic principles and tenets of a number of management approaches and to translate these principles into specific teaching strategies and skills.

EDUC4131 Aboriginal Studies at the Elementary Level

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4031.
Registration for this course is limited to Bachelor of Education students only.

This course provides effective teaching strategies for the teaching and learning of Aboriginal languages and cultures, with emphasis on Mi'kmaq language and culture. Topics include promoting oral traditions, language and culture. (Students completing the Elementary Aboriginal Education option require this course).

EDUC4133 Teaching English as a Second Language in an Additive Bilingual Model

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4033.
Registration for this course is limited to Bachelor of Education students only.

In this course students explore aspects of learning and teaching a second language. Students will also examine current research and theories as they apply to lesson planning and instruction of ESL (English as a Second Language) learners. (Students completing the Elementary Aboriginal Education option require this course).

EDUC4134 Introduction to Literacy and Fluency in Aboriginal Languages

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4034.
Registration for this course is limited to Bachelor of Education students only.

This course will focus mainly on the acquisition of the Mi'kmaq language. Students will also examine bilingual language learning approaches for Aboriginal languages. Topics include oral tradition and language immersion.

EDUC4135 Advanced Reading and Writing in Aboriginal Languages

Credits: 3
Prerequisite: Introduction to Literacy and Fluency in Aboriginal Languages (or permission from the Instructor and Dean).
Exclusions: Unavailable to students with credit for EDUC4035
Registration for this course is limited to Bachelor of Education students only.

This course will continue with the language acquisition theories examined in 'Introduction to Aboriginal Literacy'. The language of instruction for this course will be Mi'kmaq. The focus of this course is to promote the acquisition of written language and to apply bilingual language learning theories to enhance Aboriginal language writing skills.

EDUC4136 Aboriginal/Indigenous Education Models

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4036.
Registration for this course is limited to Bachelor of Education students only.

This course will explore the various theoretical and pedagogical models currently in use in Aboriginal/First Nation schools around the world.

EDUC4138 Technology Education I

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4038.
Registration for this course is limited to Bachelor of Education students only.

This course will examine technology education as a field of study, investigating the context within those technologies taught in the Nova Scotia public school program. The course focuses on developing technology supportive learning environments. Students will model social constructivist learning strategies as well as problem-based learning throughout the course. Students will examine the development and selection of teaching strategies and resources, as well as lesson

planning, unit planning and assessment. Emphasis will be placed on the effective use of technology as a teaching and learning tool within the field of technology education and across the curriculum.

EDUC4139 Technology Education II

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4039.
Registration for this course is limited to Bachelor of Education students only.

This course will examine technology education as a field of study, investigating the context within those technologies taught in the Nova Scotia public school program. The course focuses on developing technology supportive learning environments. Students will model social constructivist learning strategies as well as problem-based learning throughout the course. Students will examine the development and selection of teaching strategies and resources, as well as lesson planning, unit planning and assessment. Emphasis will be placed on the effective use of technology as a teaching and learning tool within the field of technology education and across the curriculum.

EDUC4140 Aboriginal Studies at the Secondary Level

Credits: 6
Exclusions: Unavailable to students with credit for EDUC4040.
Registration for this course is limited to Bachelor of Education students only.

This course applies effective teaching strategies to the teaching and learning of Aboriginal languages and cultures, with emphasis on Mi'kmaq language and culture. Topics include promoting oral traditions, language, community, culture diversity and traditions from an historical and sociological perspective. (Students completing the Intermediate/Secondary Aboriginal Education option require this course).

EDUC4141 Science at the Secondary Level I

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4041.
Registration for this course is limited to Bachelor of Education students only.

This laboratory course will examine curriculum and effective teaching strategies in teaching science at the secondary level. Laboratory work will be assigned from the intermediate science level and from the teachable area(s) for which students were admitted.

EDUC4143 Science at the Secondary Level II

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4043.
Registration for this course is limited to Bachelor of Education students only.

This laboratory course will examine curriculum and effective teaching strategies in teaching science at the secondary level. Laboratory work will be assigned from the intermediate science level and from the teachable area(s) for which students were admitted.

EDUC4144 Social Studies at the Secondary Level I

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4044.
Registration for this course is limited to Bachelor of Education students only.

COURSE DESCRIPTIONS

This course focuses on the teaching of social studies at the middle and secondary levels. In this course students will focus on effective teaching strategies, lesson planning, use of learning resources for social studies, unit planning development, assessment and evaluation.

EDUC4145 Social Studies at the Secondary Level II

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4045.
Registration for this course is limited to Bachelor of Education students only.

This course focuses on the teaching of social studies at the middle and secondary levels. In this course students will focus on effective teaching strategies, lesson planning, use of learning resources for social studies, unit planning development, assessment and evaluation.

EDUC4146 French Second Language at the Secondary Level I

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4046.
Registration for this course is limited to Bachelor of Education students only.

This course provides an introduction to Core French and French Immersion programs at the middle and secondary school levels. In this course students will focus on effective second language teaching strategies, lesson planning, use of learning resources, unit planning development, assessment and evaluation.

EDUC4147 French Second Language at the Secondary Level II

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4047.
Registration for this course is limited to Bachelor of Education students only.

This course provides an introduction to Core French and French Immersion programs at the middle and secondary school levels. In this course students will focus on effective second language teaching strategies, lesson planning, use of learning resources, unit planning development, assessment and evaluation.

EDUC4148 Fine Arts at the Secondary Level I

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4048.
Registration for this course is limited to Bachelor of Education students only.

This course will examine the theories and practices of teaching fine arts within a secondary school context. Students will engage in the examination and development of teaching strategies, lesson planning, use of learning resources, unit planning development and assessment and evaluation for the effective delivery of the fine arts curriculum.

EDUC4149 Fine Arts at the Secondary Level II

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4049.
Registration for this course is limited to Bachelor of Education students only.

This course will examine the theories and practices of teaching fine arts within a secondary school context. Students will engage in the examination and development of teaching strategies, lesson planning, use of learning resources, unit planning development and assessment and evaluation for the effective delivery of the fine arts curriculum.

EDUC4151 English Language Arts at the Secondary Level I

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4051.
Registration for this course is limited to Bachelor of Education students only.

This course focuses on teaching English language arts at the middle and secondary levels. In this course students will focus on effective teaching strategies, lesson planning, assessment and evaluation.

EDCU4153 English Language Arts at the Secondary Level II

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4053.
Registration for this course is limited to Bachelor of Education students only.

This course focuses on teaching English language arts at the middle and secondary levels. In this course students will focus on effective teaching strategies, lesson planning, assessment and evaluation.

EDUC4154 Mathematics at the Secondary Level I

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4054.
Registration for this course is limited to Bachelor of Education students only.

This course focuses on teaching mathematics at the middle and secondary levels. In this course students will focus on effective teaching strategies, lesson planning, assessment and evaluation.

EDUC4155 Mathematics at the Secondary Level II

Credits: 3
Exclusions: Unavailable to students with credit for EDUC4055.
Registration for this course is limited to Bachelor of Education students only.

This course focuses on teaching mathematics at the middle and secondary levels. In this course students will focus on effective teaching strategies, lesson planning, assessment and evaluation.

EDUC4211 Resource Education

Credits: 3
Registration for this course is limited to Bachelor of Education students only.

This course focuses on methods to facilitate learning for elementary and secondary students who require additional instructional supports, resources or assistive technologies. Students will explore strategies such as multiple intelligences and preferred learning styles to encourage and promote learning.

EDUC4213 Teaching Mathematics in Middle Schools

Credits: 3
Registration for this course is limited to Bachelor of Education students only.

Students will focus on instructional strategies, learning theories, content, assessment and evaluation in the teaching of mathematics in the middle school class.

EDUC4214 Guidance

Credits: 3

Registration for this course is limited to Bachelor of Education students only.

This course provides an introduction to the principles and practices of guidance services, the role of the school counselor and ways of developing effective interpersonal skills for pre-service teachers to provide guidance for their students.

EDUC4215 Learning Through Drama

Credits: 3
Registration for this course is limited to Bachelor of Education students only.

This course introduces drama as a valuable teaching and learning strategy. Topics will include: drama curriculum; lesson planning; education theory in drama; and ways of using drama as a learning tool for other subject areas.

EDUC4216 Adult Education

Credits: 3
Registration for this course is limited to Bachelor of Education students only.

This course examines the historical and philosophical approach to learning, program planning, lesson planning and instruction of the adult learner.

EDUC4217 The Adolescent Learner

Credits: 3
Registration for this course is limited to Bachelor of Education students only.

This course examines the teaching strategies based on developmental theories of the adolescent learner.

EDUC4218 The Multi-age Classroom

Credits: 3
Registration for this course is limited to Bachelor of Education students only.

This course focuses on a multi-age pedagogical approach to teaching.

EDUC4219 Canadian History in Education

Credits: 3
Registration for this course is limited to Bachelor of Education students only.

This course examines the history and current trends in the teaching of Canadian history and social studies on the secondary level. The course stresses the importance of developing a culturally inclusive and contextually integrated approach to Canadian history. Particular attention will also be given to reviewing some of the latest web based learning resources for Canadian history and in developing effective teaching strategies for meeting the learning outcomes of the new Nova Scotia Grade 11 Canadian history course.

EDUC4221 Communication Skills for Educators

Credits: 3

This course is the study of communication in the classroom as a key factor in planning and developing effective presentation and facilitation skills. The selected communications strategies that participants will learn and practice are designed to improve teacher expertise in personal and public communication that will assist them to become more effective communicators within an educational context. Throughout this course, students are given the opportunity to

create and test ideas, to develop individual skills and theories and to gain competencies in various communication settings related to educational settings.

EDUC4223 General Methods

Credits: 3

This course will examine recent research related to teaching subject specific content. Students will be required to complete an applied research project that includes the study of advanced teaching methodology in their major concentration. Topics include alternative approaches to the teaching of the particular discipline, an exploration of current issues and the demonstration of the new methodologies.

EDUC4225 Discipline Specific Methods

Credits: 3

This course will allow students to examine the curriculum that corresponds to their individual background within the teachable subjects identified by the Nova Scotia Department of Education. Participants will develop learning activities that will allow their students to meet the general and specific curriculum outcomes as outlined in the APEF curriculum documents. Through collaboration with students specializing within the various teachable subject areas, pre-service teachers will explore strategies for developing interdisciplinary integrated learning activities in order to provide their students with a holistic educational experience. Participants will develop unit plans that reflect a synthesis of the disciplinary-specific pedagogical approaches, integrated curriculum strategies and relevant literature on pedagogy and learning theory.

EDUC4989 Internship in the Elementary School

Credits: 15
Registration for this course is limited to Bachelor of Education students only.

The Internship is an extended school based practicum in which interns apply theories and knowledge of teaching and learning in an elementary classroom setting. Interns develop and apply effective teaching practices to become reflective practitioners. Facilitation of the intern's professional development and the evaluation of the Intern's progress is conducted by the classroom teacher and a university supervisor. The full practicum will be comprised of the following essential components:

- Three day (May, first term) introduction to the practical aspects of teaching and school operations
- Three day (September, second term) in-class experience in specific elementary/secondary streams (concurrent with methods course)
- 15 week in-school supervised practicum (Winter, third term)
- Completion of mentored online reflective journal for core courses
- Curriculum portfolio development component linking methodology courses to practical teaching (concurrent with methods course).

EDUC4999 Internship in the Secondary School

Credits: 15
Registration for this course is limited to Bachelor of Education students only.

The Internship is an extended school based practicum in which Interns develop and apply effective teaching practices to become reflective practitioners in a secondary classroom setting. Facilitation of the Intern's professional development and the evaluation of the Intern's progress is conducted by the classroom teacher and a University Supervisor. The full practicum will be comprised of the following essential components:

- Three day (May, first term) introduction to the practical aspects of teaching and school operations
- Three day (September, second term) in-class experience in specific elementary/secondary streams (concurrent with methods course)
- 15 week in-school supervised practicum (Winter, third term)
- Completion of mentored online reflective journal for core courses
- Curriculum portfolio development component linking methodology courses to practical teaching (concurrent with methods course).

EDUC5100 Developmental Drama

Credits: 6
Corequisite: EDUC5130.
Exclusions: Unavailable to students with credit for EDUC503.

Involves a study of the theory of creative dramatics as seen by its best-known practitioners (Peter Slade, Brian Way, Nelli McCaslin, Winnifred Ward and Dorothy Heathcote) and the application of that theory in ways adaptable to the classroom situation. The course will also encompass the various aspects of play production. Participants will explore methods and materials for conducting improvised dramatic activity in grades P-12.

EDUC5101 Assessment of Software and Information Technology Applications for Education

Credits: 3
Exclusions: Unavailable to students with credit for EDUC531 or EDUC534.

This courses offers instruction in software reviews, software evaluation models, assessment and selection. How, when, where, how often and under what context will software be used in an educational setting will be stressed. Appropriate and inappropriate software applications for use within the classroom will be considered. In order to put theory into practice, designing activity packages and incorporating educational software into lesson plans will be undertaken.

EDUC5102 The Meaning and Purpose of Curriculum

Credits: 6
Exclusions: Unavailable to students with credit for EDUC510.

Attempts to answer the question: What should schools teach? Drawing on curriculum theory, education history and current reports on education, students will articulate a comprehensive answer to the question. Curriculum planning and development skills will also be encouraged through group work and individual resourcefulness.

EDUC5103 Integration of Instructional Design and Information Technology

Credits: 3
Exclusions: Unavailable to students with credit for EDUC533 or EDUC534.

Investigates instructional design concepts and learning theory which are utilized in the integration of educational software. The many types of educational software will be discussed. Instruction in both the effective use of software to enhance teaching and in techniques involved in incorporating this across the curriculum will be given. Hyper-media on the Web, as an available software resource, will also be considered. Levels, approaches, variables, objectives and assessment of the integration of education software will be investigated.

EDUC5104 Applications of Learning Theory in Education Multimedia Design

Credits: 3
Exclusions: Unavailable to students with credit for EDUC535 or EDUC543.

Will provide educators with an in-depth look at the principles of constructivist and cognitive-based processes and the impact of technology on learning in a variety of educational contexts. Educators will also have the opportunity to apply student information technology research techniques to the production of instructional units that can be shared with their peers. Participants will use current software as the basis for understanding and developing these learning principles and will design a teaching unit to exhibit them.

EDUC5105 Designing Web-based Learning

Credits: 3
Exclusions: Unavailable to students with credit for EDUC537 or EDUC543.

Will look at the implications of Multiple Intelligence Theory on educational reform and the connection between MI and technology use in the classroom. A learner-based inquiry model (such as the I-Search process webquests and project based learning) will be used as the vehicle for participants to explore the principles of Web page design in a constructivist-based learning framework. Online tools will be used for mastering the techniques of Web page design to deliver and improve instruction.

EDUC5106 Technology Planning for Educational Environments

Credits: 3
Exclusions: Unavailable to students with credit for EDUC539.

Designed to assist educators in developing a comprehensive plan for the integration of technology into the teaching/learning process. Learners will research a broad range of existing and emerging technologies and their applications in a learning environment as well as the constructs of the technology planning process. This research will then be applied to formulating a classroom-level technology plan.

EDUC5107 Information Management in Education Environments

Credits: 3
Exclusions: Unavailable to students with credit for EDUC541.

Explores information management from an educator's point of view as well as researching electronic performance support systems and their implications for education and educators. Participants will develop a web-based personal electronic performance support system that will contain tools and information to aid the performance of that particular individual as an educator in a technology-rich, ever-changing educational environment.

EDUC5109 An Introduction to Theories and Issues in Counseling

Credits: 3
Exclusions: Unavailable to students with credit for EDUC550.

Examines the historical, philosophical, psychological and sociological bases of the major approaches to counseling. Also explores the central issues in counseling and the social context of those issues. Special reference will be made to the particular concerns of the Cape Breton community by introducing students to the notions of culture, enculturation, socialization and ethnocentrism.

EDUC5110 Teaching Canadian Culture

Credits: 6
Exclusions: Unavailable to students with credit for EDUC511.

Explores two aspects of culture and curriculum: a) art, music, drama and literature in a Canadian and regional context; and b) multi-cultural, ethnic and race issues in Canada.

EDUC5111 Cultural Issues in An Educational Setting

Credits: 3
Exclusions: Unavailable to students with credit for EDUC554.

Designed to provide those in counseling roles with an understanding of the cultural forces which shape the lives of individuals and groups. Drawing on the work of sociologists, psychologists, anthropologists and educationalists, the course highlights gender issues, race and ethnic relations, class differences and issues and school and youth culture.

EDUC5112 Learning Resources

Credits: 6
Exclusions: Unavailable to students with credit for EDUC512.

Focuses on the human and material resources used in teaching and the relationship between those resources and the classroom experience of the child. In addition to identifying and evaluating curriculum materials, the course looks at adapting the learning situation to the needs of the child. Special emphasis is put on developing an effective classroom, especially for at risk students.

EDUC5113 Human Relations Development

Credits: 3
Exclusions: Unavailable to students with credit for EDUC556.

The purpose of this course is to enhance the human relations skills of the student. Topics will include interviewing skills, group dynamics and conflict resolution.

EDUC5114 Career Counseling

Credits: 3
Exclusions: Unavailable to students with credit for EDUC560.

Examines the theory and practice of career development and career counseling as a basis for introducing the student to the skills of adolescent career counseling. Special attention is given to assessing client needs: sex, race and class issues in career counseling for gifted children; promoting child self-understanding; career information services; interest and aptitude tests and utilizing community resources.

EDUC5120 Issues in Planning, Designing and Developing Curriculum

Credits: 6
Exclusions: Unavailable to students with credit for EDUC513.

An advanced-level seminar course that is intended to develop educational leaders with a strong curriculum background. This seminar explores a number of influences academic, political and popular on curriculum and encourages self-reliant leadership in dealing with those influences.

EDUC5122 Research/Curriculum Development

Credits: 6
Exclusions: Unavailable to students with credit for EDUC514.

Introduces the students to the major issues and methods in curriculum design and development. Special attention is given to the use of technology in curriculum research. Students are expected to plan, design and develop a real or proto-type curriculum for a classroom, school system or province.

EDUC5130 Phenomenology of Childhood

Credits: 6
Exclusions: Unavailable to students with credit for EDUC520.

In order to explore and utilize the potential of the arts in education, it is appropriate to examine the central role of aesthetic learning in a child's development. This course will provide an opportunity to examine the key stages in psychological development, connecting them with the arts and focusing on a thematic analysis of the child's experiential world. Through this analysis, the students will develop an understanding of the following processes:

- Theory of multiple intelligences
- Theories of creativity
- Brain-based learning
- Constructivist approaches to creative development

EDUC5132 Principles of Computing & Implications for Instruction

Credits : 6
Exclusions: Unavailable to students with credit for EDUC530.

A comprehensive overview of microcomputers and popular application software with respect to their use as educational tools. Topics include hardware and software basics, database, applications and management, word processing, spreadsheets, telecommunications and networking, multimedia and trends in computer technology. Assignments focus on educational application by teachers and students.

EDUC5142 Individual Testing

Credits: 6
Exclusions: Unavailable to students with credit for EDUC552.

Provides students with a basic level of understanding of such individual tests of intelligence and other abilities as the Wechsler, Stanford-Binet and Peabody and their place in the counseling process. Also provides the students with an historical and cultural context for individual testing.

EDUC5150 The Identification and Remediation of Learning Problems

Credits: 6
Exclusions: Unavailable to students with credit for EDUC558.

Examines various learning problems and shows how those learning problems influence performance and adjustment in school. Intervention strategies are reviewed and practical application for school settings are designed. Special attention is paid to identifying at risk students and stay in school programs.

EDUC5800 Applied Research Project

Credits: 6
Prerequisites: 21 credits from EDUC5132, EDUC5101, EDUC5103, EDUC5104, EDUC5105, EDUC5106, EDUC5107.
Exclusions: Unavailable to students with credit for EDUC548 or EDUC538.

An important component of the program. Students conduct research in an area of technology and apply it in an educational setting. Research projects are subject to the approval of the research project advisor.

EDUC5802 Applied/Research Project

Credits: 6
Corerequisite: EDUC5810.
Exclusions: Unavailable to students with credit for EDUC598.

Designed specifically for those students enroled in the Certificate in Educational Studies. Students will work with a project advisor appointed by CBU and in conjunction with a mentor from their respective school boards. Over a seven-month period, students will carry out and report on a research project consistent with a stated school board priority.

EDUC5810 Advanced Graduate Seminar

Credits: 6
Prerequisites: EDUC5100 and EDUC5130.
Exclusions: Unavailable to students with credit for EDUC599.

Designed specifically for those students enroled in the Certificate in Educational Studies. Under the supervision of a professor appointed by CBU, students will participate in a graduate-level seminar related to the educational priorities of their respective school boards. Required readings will be assigned in accordance with students' specific interests.

EDUC5991 Counseling Practicum I

Credits: 3
Prerequisites: 21 credits fromEDUC5109, EDUC5142, EDUC5111, EDUC5113, EDUC5150, EDUC5114.
Exclusions: Unavailable to students with credit for EDUC562.

Designed to prepare students for their field work segment in Counseling Practicum II. Students learn about the ethical and legal implications of the counselor's work: the relationship to police, courts and various community intervention programs; recording interviews; counseling techniques; stress management and crisis intervention. Students are assigned a mentor with whom they will apprentice for two hours per week in the mentor's professional milieu. Students also have an opportunity to share these initial field experiences during the regular class meetings.

EDUC5993 Counseling Practicum II: Field Work

Credits: 3
Corerequisite: EDUC5991.
Exclusions: Unavailable to students with credit for EDUC564.

Designed to provide an opportunity for students to obtain some initial first-hand field experience in counseling. For three hours per week the student will work under the supervision of a counselor in a professional setting and will be required to assume a counseling role under the mentor's supervision. Students will also meet as a class for two hours per week to reflect on their experiences.

ELECTRICAL/ELECTRONIC ENGINEERING – TECHNOLOGY (ELEC)

ELEC1161 Fundamentals of Electricity I

Credits: 3
Exclusions: Unavailable to students with credit for ELEC111.

The solution of DC and AC networks as a foundation for specialization in power, instrumentation or communication options.

ELEC1164 Fundamentals of Electricity II

Credits: 3
Prerequisites: ELEC1161.
Exclusions: Unavailable to students with credit for ELEC122.

The solution of DC and AC networks as a foundation for specialization in power, instrumentation or communication options.

ELEC1165 Analog Electronics

Credits: 3
Prerequisites: ELEC1161 or permission of instructor.
Exclusions: Unavailable to students with credit for ELEC253.

An applications-oriented course based on semi-conductor electronics. Systems are analog in the sense that the components and circuits deal with continuously variable signals as opposed to discrete digital systems. Students will be exposed to the similar design and simulation tools utilized by industry such as Pspice and Electronics Workbench. Topics include review of bipolar junction transistors (BJT) and basic DC analysis, AC modeling, AC analysis, BJT amplifiers and frequency response.

ELEC2160 Process Measurements

Credits: 6
Prerequisites: PHYS1201.
Exclusions: Unavailable to students with credit for ELEC213.

The concept of process measurement as used in process industries. Includes an in-depth study of transducers for pressure, temperature, level and flow. Hands-on applications.

ELEC2162 Control Systems

Credits: 6
Prerequisites: ELEC2160.
Exclusions: Unavailable to students with credit for ELEC365.

An advanced study of theoretical, industrial control system techniques and concepts with emphasis on control system design, configuration, modeling and performance evaluation.

ELEC2163 Linear Integrated Circuits

Credits: 3
Prerequisites: ELEC1165.
Exclusions: Unavailable to students with credit for ELEC244.

Linear integrated circuit applications are examined. Emphasis is on operational amplifier circuits including comparators, inverting and non-inverting amplifiers, signal generators and active filters. Op-amp DC and AC performance is analyzed. Other circuits studied include the 555 timer.

ELEC2165 Signals and Controls

Credits: 3
Exclusions: Unavailable to students with credit for ELEC267.

This course will introduce the classification of signals and systems, signal and system properties and their applications, linear time-invariant systems, periodic signal and Fourier series, continuous-time Fourier transform, Laplace transform, z-transform and their application mainly in control and communication systems.

ELEC2166 Industrial Electronics Circuits

Credits: 3
Prerequisites: ELEC1165
Exclusions: Unavailable to students with credit for ELEC283.

A study in the theory and analysis of solid-state components used in industrial control devices. Topics include FETS, SCR, TRIAC, DIAC and an introduction to light and light sensors.

ELEC2167 Machines and Controls

Credits: 3
Prerequisites: ELEC1164.
Exclusions: Unavailable to students with credit for ELEC284.

Study of DC and AC machines, focuses on the application of voltage and torque calculations to the selection of generators and motors in typical circuit applications. Students will gain experience in the laboratory working with machines in a controlled environment. Study of industrial machine control systems includes start/stop and speed control of DC and AC motors.

ELEC2168 Programmable Logic Controllers

Credits: 3
Exclusions: Unavailable to students with credit for ELEC345.

The role of special use computers in the electrical power industry. Develops expertise in logic controller programs.

ELEC2169 Technological Thesis

Credits: 3
Exclusions: Unavailable to students with credit for ELEC355.

A 3,000+ word thesis in the discipline area in which registration or certification is sought. See Department Chair.

ELEC3161 Embedded Operating Systems

Credits: 3
Prerequisites: ENGI2167
Exclusions: Unavailable to students with credit for ELEC411.

The student will be able to use a variety of embedded operating systems in the application of development of electronic solutions for design challenges. In particular, the student will develop skills programming techniques, with assembly language and to physically build circuits to implement these programs.

ELEC3163 Digital Signal Processing

Credits: 3
Prerequisites: MATH1206 or MATH2005.
Exclusions: Unavailable to students with credit for ELEC412.

The student will develop a basic understanding of immensely powerful digital signal processing techniques, a skill needed by scientists as well as engineers, through demonstrations and the application of basic techniques. Complex number systems are treated as an advanced topic that underpins and extends the power of digital signal processing.

ELEC3164 Microelectronics Design Tools

Credits: 3
Exclusions: Unavailable to students with credit for ELEC421.

The student will be able to apply techniques in a wide variety of microelectronics design environments. This course provides experience in applying design tools such as Pspice, Xilinx Web Pack and MatLab to basic systems solutions. Also included are applications of advanced industrial design tools such as Mentor Graphics, Cadence Analog Workbench and CMC Design Flow for Digital Systems.

ELEC3165 Applied Integrated Circuit Systems

Credits: 3
Prerequisites: ELEC3164
Exclusions: Unavailable to students with credit for ELEC422.

The course will be an advanced digital systems design with VHDL. It will discuss the description of both Moore-and Mealy-type finite state machines (FSMs) and the development of state machine diagrams to abstractly represent an FSM's algorithm. It discusses an alternate way to graphically represent an FSM using an algorithm state machine (ASM) chart and how to convert ASM charts to VHDL.

ELEC3166 Applied Wireless Systems

Credits: 3
Exclusions: Unavailable to students with credit for ELEC432.

Students will be able to apply wireless design techniques using spread spectrum systems and enhance their understanding of wireless techniques used in all types of communications systems and products. An intuitive approach is used to provide a real feel for the technology, with applications to many types of wireless networks.

ELEC3737 Selected Topics in Electronics

Credits: 3

This course provides a forum for directed study on a number of issues and concerns within the present state of the field of electrical engineering and electronics industry. Each issue is dealt with in modular form. Topics include electric cars, power distribution, fiber optics, environmental sustainability, air pollution and the generation of electricity and quality management.

EMERGENCY MANAGEMENT (EMGN)

All EMGN courses are offered through distance education as well as on campus.

EMGN4100 Introduction to Disaster Management

Credits: 6
Exclusions: Unavailable to students with credit for EMGN401.

The first part of this course is designed to define the scope and objective of the disaster management field. Concepts and terms, differentiating between natural disaster assistance and refugee operations are considered. The second part of the course provides an overview of management from a disaster and emergency standpoint, looking at issues such as program planning, decision making, information management, program supervision, monitoring and control personnel and leadership.

EMGN4102 Disaster Preparedness and Response

Credits: 6
Exclusions: Unavailable to students with credit for EMGN402.

An examination of the principles and structures that may be applied in effective emergency and disaster mitigation and preparedness activities. The units consists of nine modules: Introduction to Mitigation & Preparedness, Command & Control Systems, Municipal Emergency Planning, Resource Inventory, Communications, Infrastructure Security, Ethics & Research, Bioterrorism Preparedness, and Business Continuity.

EMGN4110 Business and Industry Crisis Management

Credits: 6
Exclusions: Unavailable to students with credit for EMGN403.

The first part of this course introduces the student to the need for business and industry emergency planning and the myths and rationalizations that hinder preparedness in this area. Distinction from government as well as similarities with government emergency management will be studied in depth. The second part concentrates on the use of technology to manage an emergency. The student will study ALOHA & SOLOHA, hazard analysis and modeling programs as well applications of systems theory, remote sensing technologies and seamless networks, and similar technologies.

EMGN4112 Hazardous Materials Management and Hazards Mitigation

Credits: 6
Exclusions: Unavailable to students with credit for EMGN404.

Biological, chemical, electromagnetic and radiological materials pose special hazards that require an understanding of their nature and the degree of the hazard they impose from a physiological, economic, environmental and political framework. The course will examine the roles and responsibilities of all levels of government as well as the applicable special aspects of hazard mitigation.

EMGN4120 Operational Recovery

Credits: 6
Exclusions: Unavailable to students with credit for EMGN405.

The relief and recovery operation in any disaster is an element that must be thoroughly understood by the practitioner. Recovery planning will be studied as well as the psychological, sociological, political and economic considerations. Students must understand environmental and political as well as medical aspects in this process. Distinction will be made between short and long term recovery and the legal framework for assistance. There will be recovery-planning exercises as well as short and long term exercises.

EMGN4122 Management of Public Emergencies

Credits: 6
Exclusions: Unavailable to students with credit for EMGN406.

This course will consist of two interlaced areas that constitute an important part of public emergency control. The first area is the general study of public emergency management, where the student will learn an overview of disaster legislation in the United States and Canada and the relationships between various governments and the private and non-profit sectors. The second area is incident command and in this portion, the student will develop an incident command system/emergency operations centre for action plans in the community.

EMGN4130 Terrorism and Emergency Management

Credits: 6
Exclusions: Unavailable to students with credit for EMGN407.

This course gives the student a background in the history of terrorism in Canada and the United States as well as introducing the student to the political and psychological dimensions. The student will then apply hazard analysis and risk assessment and develop both structural and non structural mitigation strategies. An actual anti-terrorist program will be designed and actual response and preparedness from real events will be critiqued. Ethical and legal considerations will also be studied in depth.

ENGINEERING (ENGI)

Cape Breton University's Engineering Program is associated with Dalhousie University. Specific discipline choices include Biological, Chemical, Civil, Electrical, Industrial, Mechanical, Metallurgical and Mining.

Courses marked are also offered by distance.

ENGI1161 Shop Practice

Credits: 3
Exclusions: Unavailable to students with credit for ENGI101.

This course is designed to develop skills in the use of hand tools and machine shop equipment utilized in today's industrial environment. The student will learn shop safety, focusing on WHIMIS and OHSA. The course will teach soldering, circuit board construction and machine fabrication. Each skill will be emphasized by completing small projects throughout the term. This is a required course for all disciplines of technology.

ENGI1165 Engineering Graphics

Credits: 3
Exclusions: Unavailable to students with credit for ENGI125.

Introduction to conceptual graphic design fundamentals, team work and computer drafting. The aim is to develop skill in engineering free-hand sketching, drawing on CAD, 3-D visualization, graphical problem solving and understanding engineering drawings. Topics include orthographic visualization, pictorial sketching, auxiliary views, sections, descriptive geometry and intersections. A design project, focused on the process of design methodology and reporting, is an integral part of the course.

ENGI1167 Engineering Statics

Credits: 3
Exclusions: Unavailable to students with credit for ENGI145.

A study in applied mechanics; the course objective is to develop the student's ability to analytically solve practical problems in a clear and concise manner.

ENGI2101 Engineering Economics

Credits: 3
Prerequisite: Second-year standing.
Exclusions: Unavailable to students with credit for ENGI205.

Deals with the economics of decision-making. After introduction of fundamental concepts and cash flow diagrams, interest factors are dealt with in detail. Students apply the concepts to a variety of engineering design and management issues, both locally and internationally.

ENGI2131 Engineering Fluid Mechanics

Credits: 3
Prerequisites: MATH1206.
Exclusions: Unavailable to students with credit for ENGI275.

Fundamental fluid properties are presented, along with an examination of static fluid principles including pressure variation, buoyancy and stability. This is followed by a study of flowing fluid, using a control volume approach to develop continuity, momentum and energy relationships. Other topics include dimensional analysis, similitude, flow characteristics in conduits and discussion of flow measurement techniques and devices.

ENGI2133 Environmental Engineering

Credits: 3
Exclusions: Unavailable to students with credit for ENGI276.

Focuses on sources of environmental pollutants, the effects of pollutants on living and non-living systems and processes by which pollutants are generated or by which their effects can be minimized or remediated. Lectures supplemented by tutorials, which include guest speakers, case studies and field trips.

ENGI2134 Engineering Computer Programming

Credits: 3
Exclusions: Unavailable to students with credit for ENGI285.

Combines the development of a structured approach to problem solving with the use of concepts of FORTRAN programming. Especially suitable for engineering students.

ENGI2135 Engineering Design/Graphics

Credits: 3
Prerequisites: ENGI1165. 12 credits of Year II Engineering program credits or second year status with permission of instructor.
Exclusions: Unavailable to students with credit for ENGI295.

This course is intended to develop the student's ability to evaluate, plan and complete engineering projects. Fundamentals of design, design methods and design considerations as well as professional practice are discussed. Design, analysis and word processing software are employed. Project work will include design and detail (using CAD), analysis, fabrication, testing, written reports and oral presentation. Teamwork and individual design/build projects are a major part of the course.

ENGI2163 Engineering Dynamics

Credits: 3
Prerequisites: ENGI1167, MATH1206 and PHYS1204, or permission of the instructor.
Exclusions: Unavailable to students with credit for ENGI226.

The kinematics and kinetics of a particle, system of particles and rigid body. Two-dimensional motion is emphasized. Vector and scalar methods are used, as appropriate, to apply relationships derived from basic motion parameters, Newton's Second Law of Motion and from energy/momentum considerations.

ENGI2164 Engineering Thermodynamics

Credits: 3
Prerequisites: MATH1206.
Exclusions: Unavailable to students with credit for ENGI245.

Preliminary terms and concepts are reviewed, followed by the presentation of fundamental thermodynamic properties including heat and work. These properties, along with the zeroth, first and second laws of thermodynamics, are used to examine various closed and open thermodynamic systems. Related topics introduced during this examination include reversibility, thermal efficiency, entropy and exergy. The course concludes with an understanding of gas and vapour power cycles.

ENGI2165 Fundamentals of Chemical Engineering Cross-listed with CHEM3404

Credits: 3
Prerequisites: Second-year standing and CHEM1105 and MATH1206.
Exclusions: Unavailable to students with credit for ENGI246 or CHEM345.

The main objective is to develop the students' ability to perform mass and energy balances on reactive and non-reactive processes. Introductory topics include systems of units and a study of process variable, such as temperature, pressure, and flowrate. Also covered are fundamental properties of multi-phase systems: phase equilibrium, vapour pressure, phase rule, Raoult's and Henry's Laws and colligative properties. An emphasis is placed on developing problem solving skills.

ENGI2166 Engineering Electric Circuits

Credits: 3
Prerequisites: MATH1105, MATH1206 and PHYS1204.
Exclusions: Unavailable to students with credit for ENGI255.

The laws of electric circuit parameters, the concept of time constants, impedance, admittance and general network theorem. Lab sessions.

ENGI2167 Engineering Digital Logic

Credits: 3
Exclusions: Unavailable to students with credit for ENGI256.

COURSE DESCRIPTIONS

This course includes an introduction to Boolean algebra, encoders, decoders, shift registers and asynchronous and synchronous counters. Design of asynchronous circuits, synchronous sequential circuits and finite state machines is covered. Programmable logic is introduced. K-map techniques are taught. Digital analysis software is used.

ENGI2168 Circuit Analysis

Credits: 3
Prerequisites: ENGI2166.
Exclusions: Unavailable to students with credit for ENGI257.

Covers advanced circuit analysis techniques, starting with sinusoidal excitation. Concepts of phasors and complex impedance are fully developed. Mutual inductance and magnetically coupled coils are used to introduce transformer behaviour and performance. Real and reactive power flow is covered before the introduction of balanced, three-phase circuits for power distribution. Symmetrical components are introduced as a means of dealing with unbalanced networks. Concepts of grounding and harmonics included.

ENGI2169 Engineering Mechanics of Deformable Bodies (Strength of Materials)

Credits: 3
Prerequisites: ENGI1167, MATH1105 and MATH1206.
Exclusions: Unavailable to students with credit for ENGI265.

The relationship between loads applied to a non-rigid body and the resulting deformations of the body including stress and procedures to follow under specified loading conditions.

ENGINEERING – TECHNOLOGY (ENGI)

ENGI1163 Statics

Credits: 3
Exclusions: Unavailable to students with credit for ENGI111.

An introduction to the concept of forces and torques acting on structures.

ENGI1164 Strength of Materials

Credits: 3
PrerequisitesENGI1163.
Exclusions: Unavailable to students with credit for ENGI122.

Internal stresses and strains in a body due to external forces are examined. Students are also introduced to the concepts of torsion, load, shear and bending moment diagrams, beams and columns.

ENGI1166 Dynamics

Credits: 3
Prerequisites: ENGI1163.
Exclusions: Unavailable to students with credit for ENGI132.

The principles introduced in statics are expanded to include the study of velocity and acceleration of moving components. Includes calculations relating to forces, work energy and power.

ENGI1168 Fluid Mechanics

Credits: 3
Exclusions: Unavailable to students with credit for ENGI253.

This course concentrates on the theory and problem solving regarding fluid properties, hydrostatic pressure, buoyancy, fluid flow, Bernoulli equation, energy losses in piping systems, flow measurement and open channel flow.

ENGLISH (ENGL)

English courses are open not only to students who wish to concentrate on English as a major, but to all who have an interest in literature. English 1600 is normally a prerequisite for all other English courses except for English 2624. In exceptional cases students may take a 3000 level course concurrently with English 1600, but permission to do so must be obtained from the Chair and instructor.

Students who intend to major in English must consult the Department Chair before planning their program. Some career options include: teaching at all levels of education; the legal profession; print and TV journalism; editing; public relations and advertising.

Courses marked 🖱 are also offered by distance.

🖱ENGL1101 Elements of Academic Writing

Credits: 3
Exclusions: Unavailable to students with credit for ENGL101, 100 or 110.
Cannot be counted in the English major and cannot be taken after completion of ENGL1600.

An introduction to the basic principles of effective academic writing. The course covers fundamentals of grammar, punctuation, sentence and paragraph structure, along with the study of basic rhetorical strategies. Satisfies 3 credits of BA, BBA and BSc core.

ENGL1103 Introduction to Academic Writing

Credits: 3
Exclusions: Unavailable to students with credit for ENGL105.
Cannot be counted in the English major and cannot be taken after completion of ENGL1600.

An introduction to the structures and processes associated with effective academic writing.

ENGL1105 Research and Writing

Credits: 3
Exclusions: Unavailable to students with credit for ENGL109, 100 and 110
Cannot be counted in the English major and cannot be taken after completion of ENGL1600.

This course is a study of the essay form as a means of understanding the structures and processes of effective academic writing, with particular emphasis on the various strategies related to argument and other forms of expository writing. Satisfies 3 credits of BA, BBA and BSc core.

ENGL1111 Intermediate Writing

Credits: 3
Exclusions: Unavailable to students with credit for ENGL205.
Cannot be counted in the English major.

This course is designed for students who wish to improve their writing skills at a level more advanced than ENGL1101/1103.

ENGL1113 Technical and Science Writing Cross-listed with ITEC4501.

Credits: 3
Exclusions: Unavailable to students with credit for ENGL207, BUSS265, ITEC 337, ITEC411.
Cannot be counted in English major

This course focuses on intermediate technical writing skills (reports, proposals and instructions).

ENGL1600 Introduction to Literature

Credits: 6
Exclusions: Unavailable to students with credit for ENGL200.
Can be counted in the English major.

An introduction to the major literary forms in English - poetry, prose, and drama and to critical reading, analysis and writing. Literature from a variety of historical periods and/or national contexts will be considered. Satisfies BA and BSc core and 3 credits of BBA core.

ENGL1601 Cinema

Credits: 3
Exclusions: Unavailable to students with credit for FINA101.

The film is an artefact that can be experienced form a variety of perspectives – cultural, ideological, and aesthetic. A variety of films will be shown and studied throughout the term.

ENGL2100 History of the English Language

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL330 or HERT330.

The development of the English language, beginning with its origins and considering changes in phonology, morphology, syntax, vocabulary and orthography.

ENGL2200 Non-Dramatic Literature of the Sixteenth Century

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL305.

A study of the non-dramatic literature of the sixteenth century, emphasizing the work of Edmund Spenser.

ENGL2240 Shakespeare

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL340.

A survey of Shakespeare's plays.

ENGL2300 Eighteenth Century English Literature

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL360.

A study of the prose and poetry of the period 1660-1800 with some study of the developments in drama and the novel.

ENGL2340 The Romantic Movement

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL370.

An examination of the poetry of early nineteenth century England, with special emphasis on the evolution of romanticism. Works by Blake, Wordsworth, Coleridge, Byron, Keats, Shelley and their contemporaries will be examined.

ENGL2360 Victorian Literature (excluding Fiction)

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL375.

A study of the major poets of the period including Tennyson, the Brownings, Arnold, the pre-Raphaelites and some later writers.

ENGL2400 Modern Irish and British Poetry

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL354.

Major modern poets and poetic movements of Britain and Ireland from their beginnings in the 1890s to mid-century.

ENGL2420 Modern English Canadian Poetry

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL355.

Representative works of significant poets from the beginnings of modernism in Canada to the present.

ENGL2441 American Literature to 1865

Credits: 3
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL357.

A survey of major writers of the United States up to the end of the Civil War.

ENGL2461 The Celtic Revival in Literature

Credits: 3

Prerequisites:ENGL1600.
Exclusions: Unavailable to students with credit for ENGL371 or CELT371.
A study of the legends, literature, and mythology of the Celtic renaissance in the second half of the nineteenth and early twentieth centuries.

ENGL2463 Modern Celtic Literature

Credits: 3
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL372 or CELT372.

This course studies a variety of genres in English, including the novel, the essay, poetry, and short story by Irish and Scottish writers from 1900 to the present.

ENGL2624 Playwriting I Cross-listed with DRAM2621

Credits: 3
Exclusions: Unavailable to students with credit for ENGL303, DRAM331 or FINA303.
Cannot satisfy the Group 1 BA core requirement. Can satisfy Group 4, BA core requirement.

An introduction to dramatic writing, incorporating creative and structural techniques to craft setting, character and narrative.

ENGL2625 Playwriting II Cross-listed with DRAM2623.

Credits: 3
Prerequisites: ENGL 303/2624 DRAM2621, or permission of the instructor.
Exclusions: Unavailable to students with credit for ENGL323, DRAM333 or FINA323.
Cannot satisfy the Group 1 BA core requirement.

Further extension of the art and craft of writing dramatic texts for live theatre. The course will focus on dialogue and the development of scenes. Students will complete a one-act play in final draft. Attendance at theatre productions is required.

ENGL2640 Literature Written by Women: The British Tradition

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL320.

A contextual and historical study of literature written by women in a variety of genres from the fourteenth to the twentieth centuries.

ENGL2642 Survey of the Drama

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL365.

A basic and comprehensive survey of the development of drama from its beginnings to the present.

ENGL2684 Children's Literature to 1860

Credits: 3
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL381.

A survey of the earliest literature for children, including folk and fairy tales, nursery rhymes, moral and educational material, and the literary tale.

ENGL2685 Children's Literature in English: 1860-1920

Credits: 3
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL383.

Children's literature 1860-1920, with emphasis on the children's novels of the period.

ENGL3120 Middle English Literature

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL300.

A study of the major writers and genres of Middle English literature, emphasizing Chaucer's Canterbury Tales. Works are read in Middle English.

ENGL3122 Medieval Drama

Credits: 6
Prerequisites: ENGL1600
Exclusions: Unavailable to students with credit for ENGL332.

Medieval drama from its eleventh century resurgence through to the late medieval development of cycle and morality plays, with a focus on plays written in Britain in Middle English.

ENGL3200 Literature of the Seventeenth Century

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL312, 315 and 317.

A survey of the major writers of the seventeenth century, including the work of Milton.

ENGL3201 Literature of the Early Seventeenth Century

Credits: 3
Prerequisite: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL315 and 312.

A survey of the major writers of the early seventeenth century.

ENGL3203 Development of Seventeenth Century Literature

Credits: 3
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL317 and 312.

A survey of the major writers of the mid-seventeenth century, excluding Milton.

ENGL3241 Renaissance Drama I

Credits: 3
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL341.

This course explores the dramatic work of Shakespeare's most important Elizabethan predecessors and contemporaries.

ENGL3243 Renaissance Drama II

Credits: 3
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL343.

This course explores the dramatic work of Shakespeare's most important Jacobean contemporaries and heirs.

ENGL3320 Restoration and Eighteenth Century Drama

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL361.

A survey of dramatic literature written by English and Irish playwrights from 1660 to the end of the eighteenth century. Playwrights to be studied include Wycherly, Dryden, Farquhar, Steele and Sheridan.

ENGL3322 Nineteenth Century Drama

Credits: 6
Prerequisites: ENGL1600
Exclusions: Unavailable to students with credit for ENGL378.

An examination of the dramatic literature of the nineteenth century, with attention to the major dramatic genres of the period, including Gothic romance, historical drama, Victorian melodramas and developments in social realism.

ENGL3360 The Nineteenth-Century Novel

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL376.

The course examines the development of the novel from Scott to Hardy. Includes discussion of the critical approaches that can be applied to the novel.

ENGL3400 The Novel from Twentieth-Century Britain and Ireland

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL353.

The development of the British and Irish novel in the Modern Age through a close study of representative works of major novelists of the period.

ENGL3420 Modern Canadian Novel

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL356.

A study of representative works of Canada's foremost novelists in the twentieth century, with a view to tracing the development of the novel form in modern Canada.

ENGL3421 The Canadian Short Story to 1960

Credits: 3
Prerequisites : ENGL1600.
Exclusions: Unavailable to students with credit for ENGL367.

A survey of the short story in Canada from its roots in the nineteenth century to 1960, with special attention to Scott, Leacock, Callaghan, Laurence, and others.

ENGL3423 The Canadian Short Story from 1960 to the Present

Credits: 3
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL369.

A survey of the short story in Canada beginning in 1960 with special attention to Atwood, Munro, Gallant, Vanderhaeghe and others.

ENGL3424 North American Aboriginal Literature

Credits: 3
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL377.

An introduction to the songs and stories of pre-contact North American Aboriginal people, as well as the most recent flowering of writing in English over the last 30 years.

ENGL3440 Modern American Poetry

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL352.

The development of American poetry through the twentieth century. Representative poems and occasional critical prose from major modern and postmodern poets will be considered.

ENGL3441 Modern American Drama

Credits: 3
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL387.

A study of selected American plays and dramatists of the twentieth century

ENGL3442 Modern American Fiction

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL351.

The development of American fiction through the twentieth century, with particular attention to the novel. Major writers and movements of the period are represented. Selected critical and theoretical approaches to fiction are considered.

ENGL3501 History and Theory of Criticism: Plato to the Eighteenth Century

Credits: 3
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL329.

An introduction to the history and theory of classical criticism.

ENGL3503 History and Theory of Criticism: Wordsworth to the Twentieth Century

Credits: 3
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL331.

An introduction to the history and theory of Romantic, Victorian and early twentieth century criticism.

ENGL3621 Introduction to Creative Writing: Poetry

Credits: 3
Prerequisites: ENGL1600 or permission of instructor.
Exclusions: Unavailable to students with credit for ENGL333.
Cannot satisfy the Group 1 BA core requirement.

An introduction to the art and craft of writing poetry. The course aims to help students become more knowledgeable, sophisticated, creative, and engaged readers and writers of poetry.

ENGL3623 Introduction to Creative Writing: Short Story

Credits: 3
Prerequisites: ENGL1600 or permission of the instructor.
Exclusions: Unavailable to students with credit for ENGL337.
Cannot satisfy the Group 1 BA core requirement.

An introduction to the art and craft of writing the short story, with a focus on an understanding of the formal elements such as narrative, description, mood, etc.

ENGL2610 The British Literary Tradition

Credits: 3
Prerequisites: ENGL1600
Exclusions: Unavailable to students with credit for ENGL379.

Major works of British literature in a variety of forms from each of the following historical periods: Medieval, Renaissance, 17th Century, Restoration and 18th Century, Romantic, Victorian and Modern.

ENGL3652 The Short Story

Credits: 6
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL390.

A systematic examination of the short story, and its relationship to other types of fiction such as the novel. Differences in a variety of masters of the genre are studied.

ENGL3681 Young Adult Fiction

Credits: 3
Prerequisites: ENGL1600
Exclusions: Unavailable to students with credit for ENGL335.

This course considers the development of young adult fiction from its beginnings in the mid-twentieth century to the present, its generic diversity, the trends in the writing and publishing of fiction aimed at such a readership and the way in which this new fiction addresses the interests, needs and concerns of adolescents at the same time as it entertains and delivers social instruction.

ENGL3683 Literature and Film: Text and Intertext

Credits: 3
Prerequisites: ENGL1600
Exclusions: Unavailable to students with credit for ENGL391.

This course examines the means by which authors and screenwriters reinterpret classical texts by reworking them into different contexts and media. Several movies will be analyzed to discover the text at the core of the work, and the relationship between the text and its modern reworking will be studied using critical approaches based on intertexuality, discourse theory and reader/audience response.

ENGL3684 Introduction to Fantasy Literature

Credits: 3
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL393.

The course takes a thematic approach to the literary study of key works of fantasy while placing them in genre's cultural, historical and theoretical contexts. Novels and short stories will be drawn from several time periods with the major emphasis on modern and contemporary fantasy.

ENGL3685 Introduction to Science Fiction

Credits: 3
Prerequisites: ENGL1600.
Exclusions: Unavailable to students with credit for ENGL395.
The course takes a thematic approach to the literary study of key works of science fiction while placing them within the genre's cultural, historical, and theoretical contexts. Novels and short stories will be drawn from several time periods with the major emphasis on modern and contemporary science fiction.

ENGL3686 Detective Fiction

Credits: 3
Prerequisites: ENGL1600

Exclusions: Unavailable to students with credit for ENGL359.

This course surveys the origins and development of detective fiction, from its beginnings in the nineteenth century, through its rapid rise in popularity in the early twentieth century, to its status today as one of the most popular modes of fiction.

ENGL3700 Special Topics

Credits: 6
Prerequisites: ENGL1600.

Special topics may vary from year to year. Consult with the Department Chair for further information

ENGL3701, 3703 Special Topics

Credits: 3, 3
Prerequisites: ENGL1600.

Special topics may vary from year to year. Consult with the Department Chair for further information.

ENGL3801, 3803 Directed Study

Credits: 3, 3
Prerequisite: ENGL1600.
Does not meet the BA core requirement for the English major.

The student undertakes, on a tutorial basis, an individualized program of studies. Students should consult with the Department Chair for available instructors.

ENGL4140 Introduction to Old English

Credits: 6
Prerequisites: ENGL1600, at least one 2000 or 3000-level English course
Exclusions: Unavailable to students with credit for ENGL400.

A comprehensive study of the language and literature of the Old English period. The literature is read in Old English.

ENGL4200 Milton

Credits: 6
Prerequisites: ENGL1600, at least one 2000 or 3000-level English course.
Exclusions: Unavailable to students with credit for ENGL418.

A comprehensive study of Milton's major writing.

ENGL4240 Studies in Shakespeare

Credits: 6
Prerequisites: An earlier course in Shakespeare (or permission of the instructor), ENGL1600 and at least one 2000 or 3000-level English course.
Exclusions: Unavailable to students with credit for ENGL490.

A detailed study of selected plays.

ENGL4360 Nineteenth-Century Prose

Credits: 6

Prerequisites: ENGL1600, at least one 2000 or 3000-level English course .
Exclusions: Unavailable to students with credit for ENGL472.

A study of the major prose writers of the nineteenth century: Hazlitt, Lamb, DeQuincey, Carlyle, Ruskin, Arnold, Mill, and Pater.

ENGL4362 Literature of Transition: British Literature 1870-1920

Credits: 6
Prerequisites: ENGL1600, at least one 2000 or 3000-level English .
Exclusions: Unavailable to students with credit for ENGL475.

An investigation of works in several genres of writers involved in the transition from Victorian to Modern literature.

ENGL4401 Contemporary Irish Literature

Credits: 3
Prerequisites: ENGL1600 and at least one 2000 or 3000-level course in literature.
Exclusions: Unavailable to students with credit for ENGL433.

A study of the work of Seamus Heaney in the context of current debates in Irish literary studies.

ENGL4403 Classical Mythology in Modern Literature

Credits: 3
Prerequisites: ENGL1600 or 2000 or 3000-level course in literature.
Exclusions: Unavailable to students with credit for ENGL 437.

A study of the interplay between classical mythology and modern poetry.

ENGL4501 Twentieth Century Criticism & Critical Theory to 1960

Credits: 3
Prerequisites: ENGL1600 and at least one 2000 or 3000-level English course .
Exclusions: Unavailable to students with credit for ENGL426.

A survey of critical theory and practice in early modern criticism, including feminism, Marxism, psychological theory, new criticism and structuralism.

ENGL4503 Twentieth Century Criticism and Critical Theory 1960 to the Present

Credits: 3
Prerequisites: ENGL1600 and at least one 2000 or 3000-level English course .
Exclusions: Unavailable to students with credit for ENGL428.

A survey of critical theory and practice in modern criticism in its most recent manifestations, including post structuralism, deconstruction, cultural and gender theories, among others.

ENGL4522 Feminist Literary Theory

Credits: 6
Prerequisites: ENGL1600 and at least one 2000 or 3000-level English course.
Exclusions: Unavailable to students with credit for ENGL420.

The course examines feminist literary criticism and critical theories produced by women and men primarily since 1965, though some attention is paid to earlier works.

ENGL4620 Modern Drama

Credits: 6
Prerequisites: ENGL1600 and at least one 2000 or 3000-level English course .
Exclusions: Unavailable to students with credit for ENGL455.

A detailed study of the principle works of modern playwrights whose plays have had a major influence on the development of the drama including: Ibsen, Strindberg, Chekhov, Shaw, and Brecht.

ENGL4622 Contemporary Drama

Credits: 6
Prerequisites: ENGL1600 and at least one 2000 or 3000-level English course .
Exclusions: Unavailable to students with credit for ENGL465.

A study of developments in drama from 1950 to the present. Dramatists to be studied include Samuel Beckett, Brian Friel, Beth Henley, Tony Kushner, Marsha Norman, Harold Pinter, and Tom Stoppard.

ENGL4711 Selected Topics in American Literature

Credits: 3
Prerequisites: ENGL1600 and at least one 2000 or 3000-level English course .
Exclusions: Unavailable to students with credit forENGL451.

Intensive study of selected themes, authors, or genres in American literature. Special topics may vary with each presentation of the course. Consult with the Department Chair for further information.

ENGL4720 Special Topics in Renaissance Literature II

Credits: 6
Prerequisites: ENGL1600 and at least one 2000 or 3000-level English
Exclusions: Unavailable to students with credit for ENGL406.

Topics will be chosen from the broad spectrum of Renaissance drama, poetry and prose and may touch on individual authors, themes, genres and sub-genres. Selected Topics will vary from year to year.

ENGL4721 Special Topics in Renaissance Literature I

Credits: 3
Prerequisites: ENGL1600 and at least one 2000 or 3000-level English
Exclusions: Unavailable to students with credit for ENGL405.

Topics will be chosen from the broad spectrum of Renaissance drama, poetry and prose and may touch on individual authors, themes, genres and sub-genres. Selected topics will vary from year to year.

ENGL4800 Directed Study

Credits: 6
Prerequisites: At least 24 credits in English with an overall average of 65%.

The student undertakes, on a tutorial basis, an individualized program of study. Students should consult the Department Chair for available instructors.

ENGL4900 Honours Thesis

Credits: 6
Prerequisites: At least 24 credits in English with an overall average of 70%.

An extended research paper designed for students planning to enter graduate school. Students should consult the Department Chair for available instructors.

ENVIRONMENTAL ENGINEERING – TECHNOLOGY (ENVI)

Courses marked ☞ are also offered by distance.

☞ **ENVI2134 Solid Waste Management**

Credits: 3
Exclusions: Unavailable to students with credit for ENVI335.

The sources, characterization, handling, treatment and disposal alternatives for solid waste. Looks at local, national and international approaches to waste management

ENVI2161 Air Pollution

Credits: 3
Exclusions: Unavailable to students with credit for ENVI315.

A study of the sources, characteristics, environmental effects and regulatory aspects of various air pollutants. Biological, chemical and engineering concerns are stressed. Laboratory exercises complement lecture principles.

ENVI2163 Occupational Hygiene

Credits: 3
Prerequisites: CHEM2401.
Exclusions: Unavailable to students with credit for ENVI325.

This course concentrates on the recognition, evaluation and control of potential health and safety hazards in the workplace. As well, relevant legislation and regulations are reviewed. The laboratory activities involve specific hazard assessments using appropriate methodologies and equipment.

☞ **ENVI3131 Environmental Impact Assessment I**

Credits: 3
Exclusions: Unavailable to students with credit for ENVI416.

Theory and practice of environmental impact assessment, with attention to the delivery of contents and skills in a socio-political and regulatory climate.

☞ **ENVI3133 Environmental Impact Assessment II**

Credits: 3
Exclusions: Unavailable to students with credit for ENVI417.

Theory and practice of environmental impact assessment, with attention to the delivery of contents and skills in a socio-political and regulatory climate.

ENVI3134 Management of Technological Innovation I **Cross-listed with PETR3131**

Credits: 3
Exclusions: Unavailable to students with credit for ENVI426 or PETR426.

This course examines the process whereby a research and development invention is converted into a socially useful and commercially successful new product. Small and large companies are studied.

ENVI3136 Engineering for Sustainable Development I

Credits: 3
Exclusions: Unavailable to students with credit for ENVI436.

This course examines the consequences of energy use, industrialization and urbanization in order to provide working models for sustainable development. There is a focus on determining engineering solutions as well as management of technology.

ENVI3137 Engineering for Sustainable Development II

Credits: 3
Exclusions: Unavailable to students with credit for ENVI437.

This course examines the consequences of energy use, industrialization and urbanization in order to provide working models for sustainable development. There is a focus on determining engineering solutions as well as management of technology.

ENVI3138 Environmental Auditing

Credits: 3
Exclusions: Unavailable to students with credit for ENVI456.

Lectures will provide the basic grounding in environmental auditing theory with case study examples: audit scope, audit steps and other environmental auditing standards, types of audits, advantages, disadvantages and limitations, as well as environmental management systems.

ENVI3165 Management of Technological Innovation II **Cross-listed with PETR3161**

Credits: 3
Exclusions: Unavailable to students with credit for ENVI427 or PETR427.

This course examines the process whereby a research and development invention is converted into a socially useful and commercially successful new product. Small and large companies are studied.

ENVI3831 Environmental Research Project

Credits: 3
Exclusions: Unavailable to students with credit for ENVI499.

This course provides an opportunity for students to integrate the skills and knowledge acquired during pursuit of their degree into a research project centered on an area of interest in environmental studies. In consultation with a faculty member, a project proposal will be prepared and approved, permitting students to investigate and research topics beyond the levels provided for in the regular curricula. Organizational capabilities, time management and communication skills will all be stressed, along with the fundamental practices of sound technical research and academic inquiry.

FINANCE (FINC)

FINC2401 Business Finance I

Credits: 3
Prerequisites: ACCT1204.
Exclusions: Unavailable to students with credit for BUSS341.
A BBA core requirement.

An introductory course in financial management. Topics include analysis of financial statements, long-term financial planning, time value of money, bond and stock valuation, investment criteria, basic capital budgeting techniques and their applications, risk returns and capital markets.

FINC2403 Business Finance II

Credits: 3
Prerequisites: ACCT1204 and FINC2401 or permission of instructor.
Exclusions: Unavailable to students with credit for BUSS342.
A BBA core requirement.

An extension of BUSS 341. Covers topics in long-term and short-term financing, such as issuing securities to the public, cost of capital, capital structure, dividend policy, cash and liquidity management, and credit and inventory management. Issues in mergers and acquisitions, leasing and options are also discussed.

FINC2405 Personal Finance

Credits: 3
Exclusions: Unavailable to students with credit for BUSS241.

The main objective of this course is to familiarize students with the basic principles of personal financial planning. Topics include identification of financial goals and priorities, budgeting, credit and debt, risk management and insurance, savings and investment, mortgages and buying a home, retirement planning, wills and estate planning and preparation of a financial plan.

FINC3401 Intermediate Finance

Credits: 3
Prerequisites: MGSC1108, MGSC1109, FINC2401, and FINC2403.
Exclusions: Unavailable to students with credit for BUSS445.

The case method is used to analyze problems and issues in corporate financial management. Emphasis is on the application of theoretical models to realistic situations.

FINC3403 Long-term Finance

Credits: 3
Prerequisites: FINC2401 and FINC2403.
Exclusions: Unavailable to students with credit for BUSS346.

A study of various types of long-term capital available to the firm and theories relating to optimal capital structures.

FINC4401 Capital Markets

Credits: 3

Prerequisites: FINC2401 and FINC2403.
Exclusions: Unavailable to students with credit for BUSS441.

A study of contemporary financial markets and institutions in a global perspective, using Canada and the United States as a basis for understanding the rest of the world. A range of instruments for financing, investing and controlling risk in today's equity, debt, foreign exchange and derivatives markets, together with their participants, are discussed.

FINC4403 Investment Management

Credits: 3
Prerequisite: FINC2403 or permission of the department.
Exclusions: Unavailable to students with credit for BUSS443.

The analysis and management of investments, including a study of theoretical market and security models of North American capital markets.

FINC4404 Capital Budgeting **Cross-listed with ECON3111**

Credits: 3
Prerequisites: MGSC1108, MGSC1109, FINC2401, and FINC2403.
Exclusions: Unavailable to students with credit for BUSS442 or ECON375.

Examines the capital investment process emphasizing analytical techniques to evaluate investment proposals. Includes: capital budgeting principles, time value of money, basic measures of capital investment desirability and mutually exclusive investments, cash flow identification, risk analysis, capital rationing, multi-criteria capital budgeting and linear programming.

FINC4406 Options and Futures Markets

Credits: 3
Prerequisites: FINC2401 and FINC2403 or permission of instructor. Recommended: FINC4401.
Exclusions: Unavailable to students with credit for BUSS446.

This course discusses the valuation methods and hedging strategies of options, futures, and forward contracts. It presents a balance of the institutional details, theoretical foundations and practical applications.

FINC4408 International Finance

Credits: 3
Prerequisites: FINC2401 and FINC2403. Recommended: FINC4401.
Exclusions: Unavailable to students with credit for BUSS448.

This course covers the foreign exchange market, its participants and institutions, exchange determination and forecasting, foreign exchange risk and management, international bond and equity markets and international portfolio diversification. Current events which influence the international financial setting will also be discussed.

FINC4701 Special Topics in Finance

Credits: 3
Prerequisites: Academic regulations criteria and permission of the department.

Provides an opportunity to deepen studies in an area of finance not available within the regular course offerings. See Dean or Department Chair for details.

FOLKLORE (FOLK)

Folklore is the study of informal culture as both content and a process. Folklorists are interested in how beliefs, narratives, music, skills, crafts, rituals, customs and ideologies are transmitted not through structured institutions but through intimate, direct and interpersonal communication. Informal culture circumscribes traditions from those of significant time-depth with definable characteristics – ethnicity, region, occupation – to friendship and associative groups connected through media.

Folklore courses are open not only to students who wish to concentrate on Folklore as a major but to all who have an interest in culture. Courses can also form part of the Heritage Studies Certificate program within the School of Arts and Social Sciences. Students learn practical interviewing and fieldwork techniques, which are fundamental research skills in this field. The courses lead students to a better understanding of the various forms of human expressive culture and the role tradition plays in our lives and communities.

Students majoring in Folklore must consult annually with an advisor before choosing their courses for the coming year. Nine (9) credits of Folklore, includingFOLK1101, FOLK1103 and three (3) more credits at the 2000 level are prerequisites for all courses in the 3000 and 4000 levels, unless otherwise indicated.

Courses marked are also offered by distance.

FOLK1101 Introduction to Folklore I: Concepts and Fieldwork

Credits: 3
Exclusions: Unavailable to students with credit for FOLK101.

An introduction to fundamental concepts and fieldwork in Folklore study. Cape Breton oral and material traditions are emphasized.

FOLK1103 Introduction to Folklore II: Folklore Genres and Analysis

Credits: 3
Exclusions: Unavailable to students with credit for FOLK113 or FINA113.

This course surveys various genres and analytical approaches in Folklore study. Maritime Canadian materials are emphasized.

FOLK2101 Cultural Heritage of Cape Breton

Credits: 3
Exclusions: Unavailable to students with credit for FOLK217, FOLK117 or HERT117.

An interdisciplinary study of the major cultural influences and developments that have shaped Cape Breton's history. This course is an explanation of the distinctive contributions of Mi'kmaq, Acadian, Celtic and European traditions that form the mosaic of Cape Breton culture.

FOLK2103 Custom

Credits: 3
Exclusions: Unavailable to students with credit for FOLK205.

This course examines modern and historic customs from around the world, focusing on both calendar customs (celebrations marking specific times of year) and personal customs (such as rites of passage), whether they be secular or sacred. Emphasis is placed on the role of personal experience narrative, gender and material culture as it relates to customs.

FOLK2104 Atlantic Canadian Folklore

Credits: 3
Exclusions: Unavailable to students with credit for FOLK211.

This course examines the society and culture of Atlantic Canada as a means to explore the historical context and modern manifestations of folklore and its study in this region

FOLK2105 Social History of Celtic Music and Dance Cross-listed with MUSI2253

Credits: 3
Exclusions: Unavailable to students with credit for FOLK231, CELT231, ETHM231, FINA 231 or HERT231.

This course looks at the history and social context of Celtic music and dance. Themes include the influence of politics, religion, commercialism and gender, as well as processes such as modernization, popularization, codification and revival. Also covered are key individuals (musicians, composers and collectors) and important societies and institutions. The focus is mainly on the music and dance of Ireland, Scotland and Cape Breton Island, with some exploration of other Celtic regions. Topics are examined from a cross-cultural perspective. No prior musical knowledge is required.

FOLK2107 Early Canadian Celtic Music Cross-listed with MUSI2221

Credits: 3
Exclusions: Unavailable to students with credit for FOLK241, CELT241, ETHM241, FINA241, HERT241.

Students will analyze the Celtic music tradition in the New World, by exploring different Canadian regions, specifically Western Canada, rural Québec, Southern Ontario and Maritime Canada. The immense richness of the Celtic music in these regions and the wide range of influences that have nurtured the music socially and culturally will be examined.

FOLK2108 Contemporary Canadian Celtic Music Cross-listed with MUSI2223

Credits: 3
Exclusions: Unavailable to students with credit for FOLK243, CELT243, ETHM243, FINA243 or HERT243.

Students will analyze the Celtic music tradition in the New World, by exploring different Canadian regions, specifically Western Canada, rural Québec, Southern Ontario, and Maritime Canada. The immense richness of the Celtic music in these regions and the wide range of influences that have nurtured the music socially and culturally will be examined.

FOLK2111 Introduction to Gaelic Song Cross-listed with MUSI2201

Credits: 3
Exclusions: Unavailable to students with credit for FOLK207, CELT207, ETHM207 or FINA207.

Studies the history of the Celtic music traditions with special emphasis upon Scottish and Cape Breton musical traditions.

FOLK2113 Introduction to Celtic Instrumental Music Cross-listed with MUSI2203

Credits: 3
Exclusions: Unavailable for students with credit to FOLK209, CELT209, ETHM209 or FINA209.

Studies the history of the Celtic music traditions with special emphasis upon Scottish and Cape Breton musical traditions.

FOLK 2261 Celtic Dance Cross-listed with MUSI 2214

Credits: 3

Exclusions: Unavailable for students with credit to FOLK230.

Students will learn about social and solo dance forms from Scotland, Ireland and the new world diaspora. They will examine socio-cultural dance contexts (such as ceilidhs and competitions) and grapple with such issues as the impact of tourism on dance, dance as spectacle, invented dance traditions, changing dance traditions and contexts, intercultural influences, expressing identity through dance, and dance music. No dance background is required.

FOLK2401 Oral Literature: Storytelling and Other Verbal Genres

Credits: 3
Exclusions: Unavailable to students with credit for FOLK201 or FOLK200.

Analysis of storytelling, myths, folktales, legends, personal experience narratives, jokes, riddles, rhymes and proverbs.

FOLK2403 Atlantic Canadian Folk Music **Cross-listed with MUSI2301**

Credits: 3
Exclusions: Unavailable to students with credit for FOLK203 or ETHM203.

This course examines a variety of vernacular musical traditions and will consider aspects such as performers, audiences, aesthetics, functions, history, venues, transmission and collection. The definition of folk music will be debated. Folk music collections will also be studied and questioned.

FOLK2404 Urban Legend

Credits: 3
Exclusions: Unavailable to students with credit for FOLK223.

A study of contemporary legends, conspiracy theories, and rumour in North American culture, with an examination of how they function and how they affect our perceptions.

FOLK2405 Popular Music and Culture **Cross-listed with MUSI2405**

Credits: 3
Exclusions: Unavailable to students with credit for ETHM121, FINA121, FOLK121, or MUSI121.

This course examines the development of North American and British popular music by surveying key historical periods and genres which gave rise to define the popular idiom. There will be an emphasis on the links between popular music and the prevailing social conditions of each period.

FOLK2406 Vernacular Architecture **Cross-listed with HIST2111**

Credits: 3
Exclusions: Unavailable to students with credit for FOLK261, FINA107 or HIST203.

An historical survey of vernacular architecture forms in various regions of North America with attention to Maritime materials.

FOLK2407 Food and Culture

Credits: 3
Exclusions: Unavailable to students with credit for FOLK267.

An examination of the role food plays in traditional and contemporary culture. Topics include food as material culture, food and economy, food and the environment, food and drink in ritual and custom, food and dietary taboo, culinary tourism and traditional foodways in contemporary culture. Fieldwork and/or archival work required.

FOLK2408 Folklife Studies: Regional Ethnology

Credits: 3
Exclusions: Unavailable to students with credit for FOLK251.

This course examines distinctive cultural regions throughout North America and the lifeways of the people living there. Students will conduct fieldwork.

FOLK2501 Popular Music and Culture 1890 to 1950 Cross-listed with MUSI2501

Credits: 3
Exclusions: Unavailable to students with credit for FOLK2405, FOLK227, FOLK121, ETHM2401, ETHM227, ETHM121, FINA227, FINA121, MUSI2405, MUSI227 or MUSI121.

This course traces the development of popular song in North America from its earliest forms up to the development of rock and roll in the 1950's. Through topics such as parlour song, minstrelsy, jazz, country, swing and blues, the social, economic and technological forces that shaped popular song are explored in depth. The interrelationship between North American popular music and the diverse immigrant communities that helped create it is analyzed.

FOLK2503 Popular Music and Culture, 1950 - Present Cross-listed with MUSI2403

Credits: 3
Prerequisites: ETHM1101 or MUSI1114.
Exclusions: Unavailable to students with credit to FOLK229, ETHM229, FINA229 or MUSI229.

A continuation of Popular Music and Culture I, this course surveys the development of British and North American popular song between the 1960's and the 2000's. In addition to profiling the key performers, genres, businesses and texts from the past 40 years, students are introduced to the many issues that make popular music so compelling: its role in politics, social identity, economic shifts and technological changes. The sound and history of the music are connected to the prevailing social and cultural climate of each decade.

FOLK3201 Folklore and Popular Culture

Credits: 3
Prerequisites: 9 credits of Folklore
Exclusions: Unavailable to students with credit for FOLK323.

Folk groups do not exist in vacuums: their members belong to multiple communities, defined as much by their participation in mediated events as by face-to-face interactions. This course examines the dissemination of Folklore through mass media, explores the use of popular culture in folkloric forms and challenges the initial premises that popular culture is a 'modern' and/or 'corrupting' influence on traditional societies.

FOLK3203 Issues in Folklore Theory

Credits: 3
Prerequisites: 9 credits of Folklore
Exclusions: Unavailable to students with credit for FOLK325.

COURSE DESCRIPTIONS

Keywords are critical within folklore studies: terms such as `tradition,' `culture,' `heritage, '`community,' `performance,' and `art.' Appeals to each tend to suggest an ontological, quantifiable and verifiable thing, something that exists outside of our recognition of it. This course examines the application of these terms both by folklorists and by `the folk' themselves and how the discipline of folklore has developed over time to incorporate critical theory.

FOLK3301 Revivals & Survivals: Studying Folk Song & Traditional Music Cross-listed with MUSI3301

Credits: 3
Prerequisites: 6 credits of ETHM/MUSI/FOLK (except performance courses)

CBU's programs in Folklore and Ethnomusicology specialize in folk and traditional music. Drawing on literature from both disciplines, as well as others, this course explores the study of this music. What exactly *is* folk music? Who defines it, on what basis, and with what effects? Who creates it and why? How does it travel through space and time, and how does it change as it does so? What is the value of this music and why should it be studied?

FOLK3400 Canada's Cultural Landscape Cross-listed with AN/S3202

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology; or 6 credits Folklore; or background in Cultural Geography.
Exclusions: Unavailable to students with credit for FOLK332 or AN/S332.

The course takes an interdisciplinary approach to the exploration of both the perception and experience of landscape. Opportunities to examine and interpret the cultural landscapes of students' own regions are provided.

FOLK3401 Tradition and Culture Cross-listed with HUMA3401.

Credits: 3
Exclusions: Unavailable to students with credit for FOLK107, HERT107 or HUMA107.

Following an interdisciplinary study of selected themes in western culture, the student is introduced to a range of significant texts from the disciplinary areas of Folklore and related subjects.

FOLK3403 Gender in Traditional and Informal Culture

Credits: 3
Exclusions: Unavailable to students with credit for FOLK311.

A study of how patterns of assigning gender roles – the division of labour, ideas of masculinity and femininity, sexual identity, the body as form – can be both informed and perpetuated by 'traditional' culture. Simultaneously, a study of the remarkable adaptability of folkloric forms to act as a critique against these same patterns of role assignments. Fieldwork and/or archival work required.

FOLK3511 Popular Musics of the World Cross-listed with MUSI3511

Credits: 3
Prerequisites: Any 6 credits in ETHM *except* performance courses.
Exclusions: Unavailable to students with credit for FOLK321, ETHM321 or MUSI321.

This course focuses on popular musics from outside the North American and British mainstream. Students will grapple with various issues relating to global popular musics, including how they circulate the world and what happens as a result of transcultural contact, how "world music" has been constructed and consumed in the West, issues of intellectual property and ownership, language choice and the role and modes of mass media.

FOLK3601 Cultural Tourism: Music, Heritage & The Exotic Cross-listed with MUSI3601

Credits: 3
Prerequisites: Any 6 credits ETHM/MUSI/FOLK *except* performance courses.

Cultural tourism is an increasingly popular type of tourism globally. But what kind of culture is privileged and what kind of culture is avoided in tourism contexts? How does culture get staged? Do tourists experience "kitsch" or "authentic" culture? How is authenticity defined? How does the tourist context affect traditional cultural expressions and beliefs within a community? This course analyzes the "culture" in cultural tourism with an emphasis on the role of music in cultural tourism.

FOLK3603 Culture, Folk & Music Festivals: Identity on Display Cross-listed with MUSI3603

Credits: 3
Prerequisites: Any 6 credits ETHM/MUSI/FOLK *except* performance courses.

Festivals are hugely popular around the world. They provide the means for communities to showcase that which makes them unique and identifiable, including their music, food, dress, dance, and artwork. Festivals provide the opportunity to celebrate culture and identity for local residents while providing a cultural entrypoint for tourists. In this course, students consider festivals from a variety of perspectives, such as ritual, the carnivalesque, revivals, nationalism, identity, gender, and sexuality.

FOLK3700 Special Topics in Folklore

Credits: 6

Topics will change according to student and faculty interests.

FOLK3701, 3703 Special Topics in Folklore

Credits: 3, 3

Topics will change according to student and faculty interests.

FOLK4800 Directed Study

Credits: 6
Prerequisites: Restricted to Folklore majors – permission of Chair and consent of a faculty supervisor required

Folklore majors may select a course of study on any topic of special interest to them for which an appropriate faculty supervisor can be found from within the current Folklore faculty.

FOLK4801, 4803 Directed Study

Credits: 3, 3
Prerequisites: Restricted to Folklore majors – permission of Chair and consent of a faculty supervisor required

Folklore Majors may select a course of study on any topic of special interest to them for which an appropriate faculty supervisor can be found from within the current Folklore faculty.

FRENCH (FRNC)

French is primarily a language of communication as well as one of the official languages of Canada. Learning French opens doors to a large number of employment possibilities like teaching, journalism, translating and writing. Public and

civil services and governments need qualified bilingual employees in all their departments at the federal level. In Cape Breton, many local employers look for specific language skills and prefer bilingual job seekers. A few such employers are the Fortress of Louisbourg, Marine Atlantic, Devco, ECBC, the Coast Guard College, Cape Breton-Victoria Regional School Board, le Collège d'Acadie and le Centre scolaire Étoile de l'Acadie. .

Knowing French will enrich students culturally and intellectually. It will enhance their enjoyment of opportunities to travel abroad and, as they come to know the Francophones of this country, students will appreciate their contribution to Canadian life.

During the first two years, courses are designed to further listening and speaking skills, along with an added emphasis on reading and writing. In order to compensate for differing levels of skill among incoming students, steps will be taken to implement more individualized instruction. More advanced students will be encouraged to engage in projects that will enhance their knowledge of French and Canadian civilization and culture. Third and fourth year literature courses will develop this knowledge.

All new students interested in French will be evaluated by the department at registration to assist them in the selection of the appropriate course. Part-time students are urged to contact a member of the French sub-department for counseling prior to registration.

French Immersion

A student may be granted a maximum of six credits for French Immersion as part of the Summer Language Bursary Program, irrespective of the number of spring or summer sessions he/she attends, if the course is at the intermediate level or higher and a minimum grade of C is earned. Such immersion credit may only be used as a free elective.

FRNC1100 Introductory French I

Credits: 6
Exclusions: Unavailable to students with credit for FRNC100.
Human Language Acquisition Course

Designed for students with little or no previous training in French, the course delivers a comprehensive introduction to the basic structures and vocabulary of French.

FRNC1102 Introductory French II

Credits: 6
Exclusions: Unavailable to students with credit for FRNC150.
Human Language Acquisition Course

The course stresses communication skills and meets the needs of students for a course beyond 1100 or Grade 11.

FRNC1203 French for Hospitality/Tourism II

Credits: 3
Exclusions: Available for credit in the Hospitality Administration program only. Unavailable to students with credit for FRNC155.
Human Language Acquisition Course

A focus on communication skills for a wide variety of situations related to the hospitality/tourism industry.

FRNC2100 Orientation to College French

Credits: 6
Exclusions: Unavailable to students with credit for FRNC202.

COURSE DESCRIPTIONS

Human Language Acquisition Course

Develops four basic skills with emphasis on listening comprehension and conversation. Instruction mainly in French.

FRNC2101 Français Oral et Écrit I

Credits: 3
Exclusions: Unavailable to students with credit for FRNC211.
Human Language Acquisition Course

The emphasis is on reading and composition in addition to conversation. Instruction in French only.

FRNC2103 Français Oral et Écrit II

Credits: 3
Exclusions: Unavailable to students with credit for FRNC212.
Human Language Acquisition Course

The emphasis is on reading and composition in addition to conversation. Deeper development of vocabulary and sentence structure.

FRNC2104 Lecture et Conversation

Credits: 3
Exclusions: Unavailable to students with credit for FRNC231.
Human Language Acquisition Course

A focus on current events and related topics using French newspapers, magazines and the electronic media. Includes a grammar component.

FRNC2105 Lecture et Rédaction - information et Publicité

Credits: 3
Exclusions: Unavailable to students with credit for FRNC232.
Human Language Acquisition Course

Follow-up to 2104 including more in-depth readings. Oral and written reports. Continuation of the grammar component.

FRNC2106 Le Bon Usage pour Langagiers

Credits: 3
Exclusions: Unavailable to students with credit for FRNC262.
Human Language Acquisition Course

A comprehensive study of French grammar, both descriptive and normative, with a focus on areas such as morphology, syntax, the identification and correction of anglicisms, barbarisms, solecisms and other language improprieties.

FRNC2301 Civilisation Québecoise et Acadienne I

Credits: 3
Exclusions: Unavailable to students with credit for FRNC241.

The many facets of French-Canadian civilization from colonial times to the end of the nineteenth century.

FRNC2303 Civilisation Québecoise et Acadienne II

Credits: 3
Exclusions: Unavailable to students with credit for FRNC242.

Continues 2301 focusing on the twentieth century, with an emphasis on the modern history, education, arts and literature of the two francophone cultures.

FRNC2324 La langue et la Culture Françaises par le Cinéma

Credits: 3
Exclusions: Unavailable to students with credit for FRNC243.

An interdisciplinary approach to improving knowledge of the French language and culture through the medium of contemporary cinema.

FRNC2401 Panorama de la Littérature Française Jusqu' à la Fin du 18e Siècle

Credits: 3
Exclusions: Unavailable to students with credit for FRNC251.

A survey of major authors, genres and texts from the Middle Ages to the eighteenth century. Includes class discussions of assigned readings.

FRNC2403 Panorama de la Littérature Française des 19e et 20e Siècles

Credits: 3
Exclusions: Unavailable to students with credit for FRNC252.

Continues FRNC2401 to include assigned readings from the nineteenth and twentieth centuries.

FRNC3100 Conversation Avancée, Diction et Phonétique

Credits: 6
Exclusions: Unavailable to students with credit for FRNC310.
Human Language Acquisition Course

Designed to develop greater fluency in the spoken language and improve pronunciation. Laboratory and small-group work.

FRNC3101 Sémantique

Credits: 3
Exclusions: Unavailable to students with credit for FRNC311.

A study of the conventional nature of linguistic signs and the social environment of words, placing the emphasis on reasons for semantic change and the types of evolution.

FRNC3102 Introduction Générale à la Linguistique (Française)

Credits: 6
Exclusions: Unavailable to students with credit for FRNC320.

The study of French grammar and the connection between language and communication.

FRNC3110 Le Théâtre d'Expression Française au Canada

Credits: 6
Exclusions: Unavailable to students with credit for FRNC350.

French Canadian theatre with emphasis on contemporary, popular plays and playwrights.

FRNC3103 Stylistique Comparée du Français et d 'Anglais

Credits: 3
Exclusions: Unavailable to students with credit for FRNC312.
Human Language Acquisition Course

A selective study of different linguistic forms, variants and vocabulary peculiar to different users, situations or literary types.

FRNC3105 Contes et Légendes du Canada Français

Credits: 3
Prerequisite: FRNC2401.
Exclusions: Unavailable to students with credit for FRNC335.

The oral traditions of French Canada with emphasis on the narratives of Québec, Ontario and Acadie.

FRNC3401 Voltaire

Credits: 3
Exclusions: Unavailable to students with credit for FRNC341.

A study of Voltaire, one of the most influential writers of the eighteenth century and his works.

FRNC3403 Rousseau

Credits: 3
Exclusions: Unavailable to students with credit for FRNC342.

An in-depth study of Jean-Jacques Rousseau's literary works.

FRNC3441 Littérature Québecoise

Credits: 3
Exclusions: Unavailable to students with credit for FRNC3441.

A study of the most popular writers from Québec. The emphasis is on the novel and the play.

FRNC3443 Littérature Acadienne

Credits: 3
Exclusions: Unavailable to students with credit for FRNC332.

A study of Acadian literature, its beginnings, survival and renaissance. Emphasis is on the period 1945 to the present day.

GAELIC

Courses marked 🖱 are also offered by distance.

🖱 GAEL1101 Gaelic Language I

Credits: 3
Exclusions: Unavailable to students having credit for GAEL101, CELT101 or CELT100.

Introduces students to the living language spoken in Cape Breton and in Scotland. Discussion of various dialects of Scottish Gaelic spoken here, the Gaelic song and story telling traditions and the unique position of Cape Breton in the Gaelic world.

🖱 GAEL1103 Gaelic Language II

Credits: 3
Prerequisites: GAEL1101.
Exclusions: Unavailable to students having credit for GAEL103, CELT103 or CELT100.

This course builds on GAEL1101 with an increased emphasis on conversational skills.

GAEL2101 Advanced Gaelic I

Credits: 3
Prerequisites: GAEL1101/1103.
Exclusions: Unavailable to students having credit for GAEL201 or CELT201.

This course builds on the knowledge and skills acquired in GAEL1103. The primary aim is to develop reasonable fluency in the written and spoken language. Emphasis is placed on the use of idiom and more advanced grammatical structures presented in the context of conversation and recitation.

GAEL2103 Advanced Gaelic II

Credits: 3
Prerequisites: GAEL2101.
Exclusions: Unavailable to students having credit for GAEL203 or CELT203.

This course builds on the knowledge and skills acquired in GAEL2101. The primary aim is to develop reasonable fluency in the written and spoken language. Emphasis is placed on the use of idiom and more advanced grammatical structures presented in the context of conversation and recitation.

GAEL3101 Advanced Gaelic III

Credits: 3
Prerequisites: GAEL2103
Exclusions: Unavailable to students with credit for GAEL301.

This course develops the student's listening, speaking, reading and writing skills in Gaelic, in order to participate in sustained communication in a wide range of contexts on both familiar and less familiar topics.

GAEL3103 Advanced Gaelic IV

Credits: 3
Prerequisites: GAEL3101.
Exclusions: Unavailable to students with credit for GAEL303.

This course will reinforce, extend, and apply the language skills developed in GAEL3101, enabling the student to analyse the style, content, purpose and perspective of spoken communication in Gaelic and provide a critical response.

GAEL3700 Special Topics in Celtic Studies

Credits: 6

Topics will change according to student and faculty interests.

GAEL3701, 3703 Special Topics in Celtic Studies

Credits: 3, 3

Topics will change according to student and faculty interests.

GAEL4700 Special Topics in Celtic Studies

Credits: 6

Topics will change according to student and faculty interest.

GEOLOGY (GEOL)

Geology is the study of the earth, its materials, its behaviour and its evolution. A geologist is an earth scientist, concerned on the one hand with immediate and practical problems such as the discovery of mineral deposits, oil, natural gas and water, on the other hand, the earth scientist may be absorbed in the fascinating studies of the earth's formation and subsequent history. The interests of many geologists reach outward to the moon and planets. The common ground in all these fields is their intense interest in the chemical and physical nature of earth materials, the nature and effects of earth processes, and the historical interpretation of the record.

GEOL1101 Physical Geology

Credits: 3
Exclusions: Unavailable to students with credit for GEOL101.

The study of the universe, solar system and moon; minerals, rocks, elements of stratigraphy and structure of the earth; cycle of erosion and deposition; and glaciation, natural processes.

GEOL1201 Introduction to Historical Geology

Credits: 3
Exclusions: Unavailable to students with credit for GEOL102.

The unifying theory of plate tectonics is examined. The geologic timetable is discussed in relation to earth's environmental and paleogeographic changes. Labs include plant and animal fossils, geologic structures and geologic processes.

GEOLOGY – ENGINEERING TECHNOLOGY (GEOL)

GEOL1103 Physical Geology I

Credits: 3
Exclusions: Unavailable to students with credit for GEOL111.

An introduction to Earth, earth materials and the processes that formed them. Labs include rock and mineral identification, introductory topographic maps and field trips.

GEOL1203 Physical Geology II

Credits: 3
Prerequisites: GEOL1103.
Exclusions: Unavailable to students with credit for GEOL111.

Introduction to geological time, cycles of erosion and deposition, plate tectonics and the development of the landscape. Labs include physical external processes with introductory fossil identification.

GEOL2101 Engineering Geology

Credits: 3
Exclusions: Unavailable to students with credit for GEOL234.

Rock and mineral identification for aggregate selection and AAR concerns. Rock-mass calculations examined, geotechnical methods to assess geological hazards and preferred engineering solutions. Introduction to aerial photos, topographic and geological maps. Field trip to local quarries and geologic structures. Petroleum related topics will be discussed.

GEOL3101 Hydrogeology

Credits: 3
Prerequisites: GEOL1203.
Exclusions: Unavailable to students with credit for GEOL315.

The study of ground water as part of the hydrological cycle. Physical aspects of water movement in geological materials. Drinking water quality, contamination, remediation and ground water monitoring. Resource mapping and exploitation of ground water.

HISTORY (HIST)

History, by seeking to understand the present through knowledge and understanding of the past, embraces the entirety of the human experience. Methodical in its use of evidence, history remains humanistic because of the historian’s role in reconstructing the past.

History, by its nature, is interpretive and it is subject to a constant process of revision. Students of history learn to think critically and they develop independent research skills. Above all, they gain a deeper understanding of their place in the world and their connection to the larger humanity both in the past and present.

All courses listed are not necessarily offered each year. Students should consult the timetable and the History department for an accurate listing of courses.

Courses marked are also offered by distance.

HIST1100 Ascent of Humankind

Credits: 6
Exclusions: Unavailable to students with credit for HIST100.
Students may not take both HIST1100 and Humanities 1101/1106 for credit.

An historical/thematic study of civilization and culture in the Western world from ancient times to the present.

HIST1115 Introduction to World Religions: Eastern Traditions
Cross-listed with HUMA1104 and RELS1115

Credits: 3
Exclusions: Unavailable to students with credit for HIST115, HUMA115, RELS115 or RELS110.

The history, practice and meaning of the Hindu and Buddhist traditions will be examined along with Jainism and Sikhism. Their contribution to our understanding of religion as a whole and present day role of these traditions in world events will be discussed.

HIST1117 Introduction to World Religions: Western Traditions
Cross-listed with HUMA1105 and RELS1117

Credits: 3
Exclusions: Unavailable to students with credit for HIST117, HUMA117, RELS117 or RELS110.

Judaism, Christianity and Islam are three great world religions that have influenced Western society. This course will examine the origins, major historical developments, cultural influence and teachings of these world religions. There will also be an emphasis on the role these religions play in current world events and politics.

HIST2100 The Medieval Experience

Credits: 6
Prerequisites: HIST1100 or 6 credit Humanities.
Exclusions: Unavailable to students with credit for HIST212.

Explores the full scope of medieval civilization in Europe, from the disintegration of the Roman Empire in the west in the fifth century to the Voyages of Discovery in the fifteenth. Covers high politics and religion as well as social structure, thought and belief, cultural achievements and women and minority groups.

HIST2101 Canada: Conquest to Confederation

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST201.

Beginning with the British conquest in 1763, the course examines the evolution of Canadian nationality with its religious, cultural and regional diversity.

HIST2102 Celtic History

Credits: 6
Prerequisites: HIST1100 or 6 credit Humanities.
Exclusions: Unavailable to students with credit for HIST234 or CELT234.

Traces the origins and history of the Celtic people of Scotland, Ireland and Wales and their contributions to the development of Western civilization. Special emphasis is placed on their role in developing Western Christianity.

HIST2103 Canada 1867 to the Present

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST205.

Beginning with Confederation, an examination of the major themes in the evolution of Canada to the present.

HIST2104 Atlantic Canada before Confederation

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST207.

Examines settlement and political, economic, social and cultural change in the region from pre-contact Mi'kmaq society to 1867.

HIST2105 Atlantic Canada 1867-1990

Credits: 3
Prerequisites: HIST1100 or 6 credit Humanities.
Exclusions: Unavailable to students with credit for HIST209.

The history of economic, political and social change in the region after Confederation.

HIST2106 The Reformations

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST251.

A study of religious reform movements in the sixteenth century, beginning with Christian Humanism, then to Martin Luther, John Calvin, the Anabaptists and other Protestant groups, and concluding with a consideration of Catholic Reform, expressed through Loyola and the Council of Trent.

HIST2107 Europe in the Seventeenth Century

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST253.

The struggle for European hegemony, revolutions, overseas empires, rise of modern science and changes in European thought, religion and society.

HIST2108 History of Christianity I: The Christianization of Western Europe
Cross-listed with RELS2161

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST261 or RELS261.

The rise of Christianity from its origins as a sect within Judaism to its domination of life in medieval Europe.

HIST2109 History of Christianity II: Christianity and the Modern World
Cross-listed with RELS2163

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST263 or RELS263.

The history of Christianity from the reformations of the sixteenth century to the present.

HIST2110 Mi'kmaq History **Cross-listed with MIKM2120**

Credits: 6
Prerequisites: HIST1100 or 6 credit Humanities.
Exclusions: Unavailable to students with credit for HIST204 or MIKM212.

A culturally relative chronicle of significant aspects of Mi'kmaq culture from the pre-contact period to the present. Emphasis is placed on innovative methods of historical reconstruction.

HIST2111 Vernacular Architecture **Cross-listed with FOLK2406**

Credits: 3
Exclusions: Unavailable to students with credit for HIST203, FINA107, or FOLK261.

An historical survey of vernacular architectural forms in various regions of North America with special attention to Maritime materials.

HIST2112 Survey of British History

Credits: 6
PrerequisitesHIST1100 or 6 credit Humanities.
Exclusions: Unavailable to students with credit for HIST232.

The diversity and history of Britain from its early beginnings to the present: thematic and chronological perspectives.

HIST2120 Reformers, Revolutionaries, and Tyrants: Europe, 1789-1989

Credits: 6
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST250.

From 1789 to 1989, the fall of the Bastille to the fall often Berlin Wall, European society was transformed both by th development of technology, and also by dramatic political events, including the fall of the *ancien regime* in France and the fall of Communism in Eastern Europe. The course will focus on times of rapid and often violent change, and the role of the concept of 'nation' in the events of the time.

HIST3100 Historiography

Credits: 6
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST318.

History is the narrative of humanity. This course will investigate the nature of historical writing from antiquity to the present day. Students will read widely in the historical writers of various times and places; they will also prepare major papers and participate in seminars.

HIST3101 Modern Ireland, 1603-1848

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST331 or CELT331.

Ireland from the Plantations to the Famine, including such themes as the Penal Laws, secret societies, rebellion and political movements.

HIST3102 Field School in Historical Archaeology Cross-listed with ANTH3102

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology. With explicit permission of the Department Chair, a student lacking the prerequisite may be admitted on the basis of relevant practical experience and parallel formal training in other disciplines.
Exclusions: Unavailable to students with credit for ANTH304, HERT340, or HIST340.

This course gives students field instruction in the techniques used in the excavation of an archaeological site. Hands-on instruction in manual excavation methods, mapping, field recording, and laboratory analysis will prepare students as qualified archaeological field technicians. First class held on campus; all others at local field site

HIST3103 Modern Ireland, 1848-2000

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST333 or CELT333.

Themes include the rise of the IRB and the IRA, religion, cultural revival, rebellion, the establishment of the free state, the “troubles,” and contemporary Ireland.

HIST3104 Social History of Modern Canada I

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST309.

Themes will include poverty in the nineteenth century, First Nations’ experiences, regionalism, working class culture, child workers, immigrants, women and reform movements.

HIST3105 Social History of Modern Canada II

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST311.

Topics will include social violence and control, the role of the state, the Great Depression, immigration, women in wartime, discrimination, and post-industrial trends.

HIST3107 Tudor England

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST337.

England from 1485 to 1603. Establishing the dynasty, foreign policy, relations with Ireland and Scotland, reform of the church, Puritanism, overseas exploration, society, economy and government.

HIST3108 Stuart England

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST339.

England from 1603 to 1714. Political thought and conflict, constitutional experimentation, religious conflict, civil war, Glorious Revolution, rise of scientific thought and migration, particularly to New England.

HIST3109 Scotland 1500-1603

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST341.

Scotland's internal politics; relationships with France and England, with which it became dynastically linked in 1603; the Reformation; ideas about nation; political thought; economy; and society.

HIST3110 Aboriginal and Treaty Rights in the Canadian Constitution
Cross-listed with MIKM3120 and POLS3110

Credits: 6
Prerequisites: MIKM1100 or permission of the instructor.
Exclusions: Unavailable to students with credit for HIST312, MIKM340 or POLS340.

The study of Mi'kmaq Aboriginal and treaty rights in Atlantic Canada. The issue of enshrining Aboriginal and treaty rights in S.25 and S.35 of the Constitution Act (1982) will be emphasized.

HIST3111 Scotland 1603-1707

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST343.

Emphasis will be upon church and state. The relationship with England up to the union of parliaments, Scottish evangelical piety, the National Covenant, war with England, the later covenanters and the impact of the Glorious Revolution.

HIST3112 Public History and Museology **Cross-listed with COMM3120**

Credits: 6
Prerequisites: HIST1100 or 6 credits in Humanities.
Exclusions: Unavailable to students with credit for HIST380, COMM380 or HERT350.

An overview of museum and heritage institutions over the past two centuries and how different nations, communities, and cultures interpret their history to the general public.

HIST3113 Cape Breton History, 1820-1910

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST305 or HERT305.

The settlement of Cape Breton, cultural aspects of nineteenth century society, immigration/emigration and the transformation that accompanied industrialization.

HIST3114 Cape Breton History, 1910-2000

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST307 or HERT307.

The emergence of the working class culture, industrial conflict, politics, economic development/underdevelopment and images and realities in post-industrial Cape Breton.

HIST3120 Race Relations in North America Cross-listed with MIKM3320

Credits: 6
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST324 or MIKM375.

A history of the cultural interaction between whites, native Americans, and blacks in North America from the period of exploration and first contact to the present. Seminar.

HIST3122 The Modern Scottish Highlands

Credits: 6
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST334 or CELT334.

The Celtic Society of the Scottish Highlands from the battle of Culloden to the present. Special emphasis on Cape Breton's Highland heritage.

HIST3130 The Viking World

Credits: 6
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST346 or CELT368.

Explores the origins of the Vikings; their expansion and settlement in Europe, Britain, Russia, and the North Atlantic; and their impact. Considers political and social organization as well as technology and religion (including conversion to Christianity) from A.D. 700 to about 1266. Also examines current debates about the nature of Vikings and Viking expansion.

HIST3132 The Atlantic World During The Age Of Sail

Credits: 6
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST320.

By the late seventeenth century, European explorers had drawn four continents and the millions of people who lived there, into a zone of interaction centred on the Atlantic Ocean. This Atlantic world was not discovered, but was created, over time, by Europeans, Africans and Indigenous peoples. By no means equal in power and influence, they were tied together by a complex web of economic, political and cultural connections that reshaped life in Europe, Africa and the Americas in revolutionary ways. Organized around the experience of seafarers, slaves and pirates, this course examines the formation

and development of the Atlantic world during the age of sail (roughly the late seventeenth to the early nineteenth century) from the bottom up. Particular emphasis will be placed on the Anglo-American and Caribbean contexts.

HIST3140 The Peopling of Canada and North America

Credits: 6
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST322.

This course presents an expanded vision of the history of Canada and North America. It traces the adaptations and interactions of cultures from the arrival of First Peoples over 12,000 years ago through the period of large-scale immigration during the modern industrial age.

HIST3142 Modern Britain

Credits: 6
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST330.

The history of Great Britain since the late eighteenth century, from leading industrial power to subsequent decline as a world power in this century.

HIST3150 Social History of Louisbourg

Credits: 6
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for HIST310.

The social and cultural history of Cape Breton during the French regime. Seminar, includes a number of field trips.

HIST3201 Religious Persecution to Religious Liberty I (to 1600)
Cross-listed with PHIL3201 and RELS3153

Credits: 3
Prerequisites: HIST1100 or 6 credist Humanities.
Exclusion: Unavailable to students with credit for HIST353, PHIL353, or RELS353.

This course examines ideas about religious intolerance, toleration and liberty from antiquity to the sixteenth century. Students will read and discuss important texts. Historical, theological and philosophical perspectives will be introduced.

HIST3203 Religious Persecution to Religious Liberty II (from 1600)
Cross-listed with PHIL3203 and RELS3155

Credits: 3
Prerequisites: HIST3201.
Exclusions: Unavailable to students with credit for HIST355, PHIL355 or RELS355.

A continuation of HIST3201. The seventeenth century worked out ideas presented during the Reformation, while the enlightenment launched an all-out assault on bastions of intolerance. Modern approaches, theological and philosophical, along with contemporary declarations, e.g. United Nations and Vatican II, will also be read.

HIST3700 Special Topics in History

Credits: 6
Prerequisites: HIST1100 or 6 credits in Humanities.

Provided for those who wish to study special fields within History that are not normally available. Focus depends on the availability and interests of a visiting professor. See Department Chair for details.

HIST3701, 3703 Special Topics in History

Credits: 3, 3
Prerequisites: HIST1100 or 6 credits in Humanities.

Provided for those who wish to study special fields within History that are not normally available. Focus depends on the availability and interests of a visiting professor. See Department Chair for details.

HIST4100 Twentieth Century Canadian Politics

Credits: 6
Prerequisites: 12 credits at the 2000 or 3000 level.
Exclusions: Unavailable to students with credit for HIST400.

Throughout the twentieth century, two political parties – the Liberals and the Conservatives – dominated Canadian political life. At the federal level, for example, the Liberal party under Mackenzie King, Louis St. Laurent, Lester Pearson, Pierre Trudeau and Jean Chretien, was in power for the better part of the century. Periodically, however, these mainstream political parties, with their faith in liberalism, capitalism and parliamentary democracy, were challenged by other parties and movements that proposed different, sometimes radically different, visions of the ways in which Canadian society ought to be organized. This course is about those political challenges: why they emerged, what they stood for and how the political mainstream responded.

HIST4102 Modern American Culture

Credits: 6
Prerequisites: 12 credits at the 2000 or 3000 level.
Exclusions: Unavailable to students with credit for HIST422.

A study of the dynamic interaction of race, ethnicity, gender, and class in the urban, suburban, and regional contexts of American culture in the twentieth and twenty-first centuries. Seminar.

HIST4110 Witch-hunting and Popular Culture in Late Medieval and Early Modern Scotland

Credits: 6
Prerequisites: 12 credits at the 2000 or 3000 level.
Exclusions: Unavailable to students with credit for HIST430.

This course will examine the development and evolution of witch-hunting in Scotland from the sixteenth to the eighteenth centuries. Particular attention will be paid to the use of the phenomenon as a resource for the study of popular cultures, conceptions and constructions of gender and the political and religious turmoil of the period.

HIST4112 The Days of Sail in Atlantic Canada, 1800-1930

Credits: 6
Prerequisites: 12 credits at the 2000 or 3000 level.
Exclusions: Unavailable to students with credit for HIST412.

The four Atlantic provinces are intimately bound to the Western ocean. It defined countless coastal communities. By the 1870's the Maritimes had the fourth largest merchant marine in the world. Sailors, master mariners and shipbuilders from

these communities acquired a global reputation during this period. This course will examine the social, cultural and economic aspects of the rise and fall of sail in Atlantic Canada.

HIST4122 The Great War and Western Civilization

Credits: 6
Prerequisites: 12 credits at the 2000 or 3000 level.
Exclusions: Unavailable to students with credit for HIST452.

A seminar examining the enormous impact of WWI on Western civilization, from its background and causes, through its major events and results, to the outbreak of WWII in 1939.

HIST4700 Special Topics in History

Credits: 6
Prerequisites: Permission of the instructor.

Provided for those who wish to study special fields within History that are not normally available. Focus depends on the availability and interests of a visiting professor. See Department Chair for details.

HIST4701, 4703 Special Topics in History

Credits: 3, 3
Prerequisites: Permission of the instructor.

Provided for those who wish to study special fields within History that are not normally available. Focus depends on the availability and interests of a visiting professor. See Department Chair for details.

HIST4800 Directed Study in History

Credits: 6

This option is available to all History majors. Students will work under the close supervision of one faculty member and they will complete a course of readings together with at least one major research essay. They may also be required to complete shorter written assignments and or exams.

HIST4900 Thesis in History

Credits: 6

This option is available to History majors who have a minimum average of 75% in History and it is specifically designed for those students who are planning to continue their study of History on the graduate level. Students will work under the supervision of at least one faculty member in History and they will complete a thesis during the second term. At the discretion of their advisor(s), students may also be required to complete other shorter assignments.

HIST5120 Women's History: The British North American Experience 1880-1950

Credits: 6
Prerequisites: 12 credits at the 2000 or 3000 level.
Exclusions: Unavailable to students with credit for HIST462.

Studies the evolution of women's roles in Britain and Canada during the nineteenth century and the early years of the twentieth century. Takes a chronological approach to the study of social, political, and economic obstacles which women had to overcome to attain equality in British and Canadian society, including Cape Breton society.

HOSPITALITY AND TOURISM MANAGEMENT (HATM)

The Bachelor of Hospitality and Tourism Management program is a three-year general degree offered through the Shannon School of Business that encompasses courses spread over the Hospitality, Tourism, Business/Management, Humanities, Social Science, and English academic disciplines.

Courses marked 🖱 are also offered by distance.

HATM1501 Introduction to Food Theory and Nutrition

Credits: 3
Exclusions: Unavailable to students with credit for HATM161.

Students will learn the fundamentals of nutrition, food preparation, proper food handling, and workplace safety with reference to current lifestyle and food industry standards.

HATM1503 Restaurant Operation and Service

Credits: 3
Prerequisites: HATM1501.
Exclusions: Unavailable to students with credit for HATM162.

Students will acquire a comprehensive overview of the various techniques associated with dining room service.

🖱 HATM1504 Tourism in Canada

Credits: 3
Exclusions: Unavailable to students with credit for HATM165.

Students are instructed in the fundamental components of the hospitality and tourism industry in Canada.

🖱 HATM1505 Guest Service Computer Applications

Credits: 3
Exclusions: Unavailable to students with credit for HATM169.

Students are instructed in the techniques required for operation of the guest services component of a hotel complex. A lab component familiarizes students with property management system software.

🖱 HATM1506 Tourism Marketing

Credits: 3
Exclusions: Unavailable to students with credit for HATM163.

This course examines the concept of markets, market studies, market segmentation, consumer behaviour, and the development of marketing strategies from a tourism service/product market perspective.

Note: At the time of printing, this cross-listing was being re-evaluated. Please refer to the HTML calendar at **www.cbu.ca** for details or contact the Dean of Business.

HATM2501 Food Science Fundamentals for Hospitality Food Service Managers

Credits: 3

Prerequisites: HATM1501 and HATM1503.
Exclusions: Unavailable to students with credit for HATM268.

This course focuses on the preventive measures that promote food safety. Causative agents and control mechanisms are thoroughly addressed through the use of appropriate production processes, legislation, inspection and food safety systems such as HAACP. This course includes segments on menu development, costing, mixology, and wines.

HATM2999 Partnership with Industry - Industry Internship I

Credits: 0
Exclusions: Unavailable to students with credit for HATM269.

Following the successful completion of year one, the student is required to work in the industry. This component requires project completion and 540 employment hours.

HATM3125 Tourism Operation Planning

Credits: 3
Prerequisites: ACCT1204, HATM1503, HATM1506 and HATM3504.
Exclusions: Unavailable to students with credit for HATM363.

The course emphasizes the use of knowledge and skills acquired in accounting, marketing, facilities management, human resources and restaurant operations in the tourism manager's decision making. The emphasis is on the interrelationship of the core business areas required to plan, develop and sustain demand for the organization in the tourism industry.

HATM3503 Meetings and Convention Management

Credits: 3
Prerequisites: HATM1501 and HATM1503 or permission of the instructor.
Exclusions: Unavailable to students with credit for HATM365.

This course provides a comprehensive overview of the Meetings, Expositions, Events and Conference industry (MEEC). Attention will be placed on the importance of corporate and association-based clients, marketing, and management approaches.

HATM3504 Resort/Facilities Management and Maintenance

Credits: 3
Prerequisites: HATM1504 and HATM1505.
Exclusions: Unavailable to students with credit for HATM367.

This course provides students with an in-depth knowledge of management processes in the development and operation of lodging or institutional property structures.

HATM3505 Tourism Law

Credits: 3
Exclusions: Unavailable to students with credit for HATM368.

This course provides students with insight into the legal relationships between innkeepers, restauranteurs, tour operators and their guests. Risk and liability reduction as well as ethical service will be a major

HATM3506 Functions Management I

Credits: 3
Prerequisites: HATM1501, HATM1503 and HATM2501.
Exclusions: Unavailable to students with credit for HATM2370.

This course is designed to provide students with an applied working knowledge of the multi-faceted functions associated with operation of restaurant and banquet facilities. Students will be exposed to all aspects of managing a functional food preparation environment. A major component of this course is student operation of an on-site restaurant open to the public.

HATM3507 Functions Management II

Credits: 3
Prerequisites: HATM3506.
Exclusions: Unavailable to students with credit for HATM371.

This course is a continuation of HATM3506 and further emphasizes student responsibility in food service operations. This course further extends into management of special event functions. A major objective of this course is the student organization and management of a term-end special event production.

HATM3508 Destination Marketing Management

Credits: 3
Prerequisites: HATM1506 or permission of the instructor.
Exclusions: Unavailable to students with credit for HATM375.

This course will examine destination marketing management as a field of study, investigating concepts that apply to the development of tourist destinations. Students will examine marketing management as it relates to destination branding, destination sustainability and the opportunities and challenges facing local, regional and national destination marketing organizations in an increasingly competitive tourism marketplace.

HATM3509 International Tourism Management

Credits: 3
Prerequisites: HATM1504 and MGMT3607.
Exclusions: Unavailable to students with credit for HATM373.

This course will introduce the concepts associated with cross-cultural awareness; political influence and stability; education, training and development; currency exchange; strategic development and trending in international tourism operations. Students will explore topical issues and concepts through classroom discussion, case studies, and presentations. Upon successful completion of the course students should be able to apply information learned in a wide range of management sectors including the hospitality, tourism, accommodation and travel industries.

HATM3999 Partnership with Industry - Practicum II

Credits: 0
Prerequisites: HATM2999.
Exclusions: Unavailable to students with credit for HATM369.

The program's second work placement. The objective is to enhance the student's qualifications for employment. This component requires project completion and 540 employment hours.

HUMANITIES (HUMA)

The following courses are available for credit within the core curriculum of the Bachelor of Arts and Bachelor of Science programs. Please refer to program core requirements for details. Not all courses are offered each year. Please consult the current timetable for availability.

Students may not take both HIST1100 and Humanities 1101/1106 for credit.

HUMA1101 Introduction to Culture and Civilization in the West and in the World

Credits: 3
Exclusions: Unavailable to students with credit for HUMA101 or HIST100/1100.

Explores, in an interdisciplinary, historical and thematic fashion, the development of human culture and civilization in Europe and the Middle East, from pre-historical through ancient Greek and Roman periods.

HUMA1104 Introduction to World Religions: Eastern Traditions
Cross-listed with HIST1115 and RELS1115

Credits: 3
Exclusions: Unavailable to students with credit for HUMA115, HIST115, RELS115, or RELS 110.

The history, practice, and meaning of the Hindu and Buddhist traditions will be examined along with Jainism and Sikhism. Their contribution to our understanding of religion as a whole and present day role of these traditions in world events will be discussed.

HUMA1105 Introduction to World Religions: Western Traditions
Cross-listed with HIST1117 and RELS1117

Credits: 3
Exclusions: Unavailable to students with credit for HUMA117, HIST117, RELS117, or RELS 110.

Judaism, Christianity, and Islam are three great world religions that have influenced present day Western society. This course will examine the origins, major historical developments, cultural influence and teachings of these world religions. There will also be an emphasis on the role these religions play in current world events and politics.

HUMA1106 Culture and Civilization in the West from the Middle Ages to the Present

Credits: 3
Prerequisites: HUMA1101.
Exclusions: Unavailable to students with credit for HUMA103 or HIST 100/1100.

Continues 1101 to include a study of the main themes of Western culture from the Middle Ages to the present.

HUMA1107 Women in Western Civilization

Credits: 3
Exclusions: Unavailable to students with credit for HUMA111.

An introduction to some of the social, economic, and cultural issues which confronted women, from the Middle Ages through to the Industrial Revolution.

HUMA3401 Tradition and Culture **Cross-listed with FOLK3401.**

Credits: 3
Exclusions: Unavailable to students with credit for FOLK107, HERT107, or HUMA107.

Following an interdisciplinary study of selected themes in western culture, the student is introduced to a range of significant texts from the disciplinary areas of Folklore and related subjects.

INFORMATION TECHNOLOGY (ITEC)

To keep current with the latest technologies and industry demand, the BTI program and individual course offerings are under constant review. Please refer to CBU's online calendar, the BTI program website http://itrocks.cbu.ca, or contact the Department Chair for current details.

ITEC1501 Introduction to Programming (C++)

Credits: 3
Exclusions: Unavailable to students with credit for ITEC110.

A study of current programming languages and techniques and their use in practical applications. Emphasis will be placed on the development of a high degree of proficiency in C++. This course stresses basic C++ concepts including data types, conditional and looping mechanisms, functions, arrays, structures, pointers, bit handling, and file I/O. The rudiments of C++ are introduced, particularly class construction. This course assumes some programming background.

ITEC1503 Introduction to Operating Systems

Credits: 3
Exclusions: Unavailable to students with credit for ITEC112.

This course follows a systematic approach to operating systems explaining why they are needed and what they do. Topics include the basic system resources of hardware, software and data, single-user and multi-user operating systems, job control languages and the use and maintenance of file systems.

ITEC1504 Information Systems

Credits: 3
Exclusions: Unavailable to students with credit for ITEC114.

Introduces computers and the role they play in business, industry and society. Topics include basic components of computer systems and how these function in an information processing environment. Hands-on labs cover operating systems, word processing, windows applications and problem-solving techniques.

ITEC1505 PC Hardware Fundamentals

Credits: 3
Prerequisites: ITEC1503 and ITEC1504.
Exclusions: Unavailable to students with credit for ITEC120.

This course prepares students to pass the hardware component of Computer Technology Industry Association's (CompTIA) vendor-neutral A+ certification exam. Topics include an overview on how computers integrate hardware and software components, the system board, managing memory, hard drives, troubleshooting fundamentals, supporting I/O devices, multimedia technology, electricity and power supplies.

ITEC1506 Introduction to Network Management

Credits: 3
Prerequisites: ITEC1503 and ITEC1504 or permission of instructor.
Exclusions: Unavailable to students with credit for ITEC122.

This course, along with ITEC2504 (Advanced Network Management), introduces networking technologies and prepares students to pass the Computer Technology Industry Association's (CompTIA) vendor-neutral Network+ certification exam. Topics covered include networking standards, the OSI model, network protocols, networking media and presentations as appropriate.

ITEC1507 Internet Fundamentals

Credits: 3
Prerequisites: ITEC1504.
Exclusions: Unavailable to students with credit for ITEC124.

Introduces the fundamentals of Internet concepts, principles, and services. Topics covered include FTP, Telnet, efficient Web searching, Internet infrastructure, HTML and introductory web design.

ITEC2501 Systems Analysis and Design

Credits: 3
Prerequisites: ITEC1504.
Exclusions: Unavailable to students with credit for ITEC210.

The analysis and design of commercial information processing systems. Classical documentation tools and techniques are utilized for information gathering and system development.

ITEC2503 Advanced Programming

Credits: 3
Prerequisites: ITEC1501.
Exclusions: Unavailable to students with credit for ITEC220.

A study of current, fourth-generation programming languages and their techniques and use in practical applications. Emphasis will be placed on the development of a high degree of proficiency using advanced programming tools.

ITEC2504 Advanced Network Management

Credits: 3
Prerequisites: ITEC1506 or permission of instructor.
Exclusions: Unavailable to students with credit for ITEC222.

The goal of this course, along with ITEC1506 (Introduction to Network Management), is to provide an introduction to networking technologies and to prepare students to pass the Computer Technology Industry Association's (CompTIA) vendor-neutral Network+ certification exam. Topics covered include networking hardware, WANs, NOS, NetWare, Windows NT, TCP/IP, and troubleshooting, maintaining, and upgrading a network. Emphasis is on lectures, complemented with labs and student presentations as appropriate.

ITEC2505 Database Development

Credits: 3
Prerequisites: ITEC1501 and ITEC1504.

Exclusions: Unavailable to students with credit for ITEC224.

An understanding of the general concepts of database management systems. Topics include an in-depth discussion of data modeling and relational database theory. Labs involve practical experience in designing and building a database.

ITEC2506 Applied Assistive Technology

Credits: 3
Prerequisites: ITEC1504, MGSC2101 or instructor approval.
Exclusions: Unavailable to students with credit for ITEC226.

This course focuses on the use of computer-based assistive technology resources, emphasizing the practical application of AT in classroom, workplace, and home environments. Hands-on lab activities, case analysis and Web-based instructional support, demonstrate how AT can act as an equalizer. The target audience for this course includes teachers, employers, users of AT and their families, and individuals involved with the support of persons with disabilities. In addition to new learning, course assignments will allow students to demonstrate previous experience and knowledge of assistive technology.

ITEC3503 Visual Basic

Credits: 3
Prerequisites: ITEC1501 and ITEC1504.
Exclusions: Unavailable to students with credit for ITEC310.

This course introduces programming in Visual Basic, the popular Windows application development environment. Students will learn how to create object-oriented graphical user interfaces by using object linking and embedding, dynamic data interchange, and visual basic forms, events, properties and controls.

ITEC3504 Systems Security and Control

Credits: 3
Prerequisites: ITEC1504, ITEC1507, ITEC2501, and ITEC2505.
Exclusions: Unavailable to students with credit for ITEC316.

This course provides a systematic approach to computer and information security. It covers methods for auditing computer systems, cost and effectiveness of systems control measures, and fundamentals of implementing a system security program. The development of a Threat and Risk Assessment (TRA) and the review of control objectives for systems are key aspects.

ITEC3505 Mid-Range Operating Systems

Credits: 3
Prerequisites: ITEC1503 and ITEC1504 or permission of instructor.
Exclusions: Unavailable to students with credit for ITEC318.

This course will provide hands-on experience with mid-range operating systems. The core of a mid-range operating system, utilities, multi-user log-on management, system configuration, and file systems will be covered in depth.

ITEC3506 IT Project Management

Credits: 3
Prerequisites: ITEC2501.
Exclusions: Unavailable to students with credit for ITEC320.

Learners will investigate project management and its significance in the success of information technology projects. Topics covered include project selection methods, work breakdown structures, network diagrams, critical path analysis, cost estimates, earned value analysis, motivation theory, team building, and CASE tools. Project management tools will be used to plan and manage an information systems project in a team setting.

ITEC3507 Object Oriented Programming

Credits: 3
Exclusions: Unavailable to students with credit for ITEC322 or ITEC421.

Introduces the JAVA programming language. Topics include GUI interface development, object oriented programming concepts, database access, platform independence, web integration, and stand alone applications.

ITEC3508 Windows Server Technologies

Credits: 3
PrerequisitesITEC1503 and ITEC114, or approval of the Department Chair.

Exclusions: Unavailable to students with credit for ITEC324.

This course provides a comprehensive investigation of the Windows network operating system (currently Windows 2000). Topics covered include installation, configuration, managing accounts, client connectivity, managing groups, managing printers, remote access, virtual private networks, optimization, and troubleshooting.

ITEC3509 Technical Writing

Credits: 3
Exclusions: Unavailable to students with credit for ITEC326.

This course deals with technical documentation concepts specific to the information technology sector. Topics covered include systems and end user documentation, help and readme files, writing for the Web, screen design considerations, indexing, and markup language concepts. Students will critique government and industry documentation standards, investigate the use of current multimedia technologies for IT documentation purposes and develop a career portfolio.

ITEC3511 Business Strategies in IT

Credits: 3
Prerequisites: ITEC1504 or approval of the Department Chair.
Exclusions: Unavailable to students with credit for ITEC328.

This course addresses the use of information technology (IT) to improve business strategies and performance, including IT as an enabler of organizational change, the management of business knowledge, applications systems architecture, and business processes. Case studies and projects reinforce this desired business-technology alignment theme.

ITEC4501 Intermediate Technical Writing Cross-listed with ENGL1113

Credits: 3
Exclusions: Unavailable to students with credit for ITEC 337, ITEC411, BUSS262 or ENGL207.

This course focuses on intermediate technical writing skills (reports, proposals, instructions).

ITEC4503 Internet Administration

Credits: 3
PrerequisitesIETC1505, ITEC1507 and ITEC2504 or approval of the Department Chair.

Exclusions: Unavailable to students with credit for ITEC412.

This course surveys the key technologies that make the Internet work. Topics covered include programming on the Internet, databases and web hosting, Internet security, FTP server, Internet clients, HTML, and authoring tools. This course prepares students to take the Computer Technology and Industry Association's (CompTIA) vendor-neutral i-Net+ certification.

ITEC4504 Advanced TCP/IP

Credits: 3
Prerequisites: ITEC1507, ITEC2504, and ITEC3508 or approval of the Department Chair.
Exclusions: Unavailable to students with credit for ITEC414.

This course provides a comprehensive look at TCP/IP as used on the current Windows NOS platform. Topics covered include IP addressing, data link and network layer protocols, ICMP, DNS, DHCP, IPv6, securing TCP/IP and SMTP.

ITEC4505 E-Commerce Technologies

Credits: 3
Prerequisites: ITEC2503 and ITEC3503 or approval of the instructor.
Exclusions: Unavailable to students with credit for ITEC416 or ITEC444.

This course provides the learner with an overview of the state of e-commerce today. It defines electronic commerce and discusses electronic commerce elements. Also addressed are issues and technologies available for companies wishing to engage in e-commerce. Student will be required to build a basic e-commerce system.

ITEC4506 Data Warehousing

Credits: 3
Exclusions: Unavailable to students with credit for ITEC418 or ITEC442.

Course focuses on the design and development of data warehouses and on-line transaction processing (OLTP, EIS, DSS) using a combination of relational and object oriented databases.

ITEC4507 Software Engineering Tools

Credits: 3
Prerequisites: ITEC2503 and ITEC2501 or approval of Department Chair.
Exclusions: Unavailable to students with credit for ITEC422.

This course will deal with various systematic approaches to the development and support of software. Topics covered include cleanroom software engineering, component-based software engineering, client-server, Web-engineering, CASE and object-oriented software engineering.

ITEC4508 WAN Technologies (Internetworking)

Credits: 3
Exclusions: Unavailable to students with credit for ITEC424 or ITEC396.

This course deals with the interconnectivity and data sharing issues associated with a heterogeneous (multi-platform, multi-vendor) network environment.

ITEC4509 Current Issues in IT - Case Analysis

Credits: 3

Prerequisites: Completion of ITEC diploma or advanced standing in BTI or approval of Department Chair.
Exclusions: Unavailable to students with credit for ITEC425 or ITEC312.

This course examines the social, legal and ethical issues involved with the use of computer technologies. Topics covered include privacy of information, wiretapping, data encryption, computer crime, intellectual property and professional ethics. This course emphasizes class discussions, case studies, guest lectures and student research presentations.

ITEC4511 Systems Implementation Project

Credits: 3
Prerequisites: ITEC3506 and at least one advanced level programming course with ITEC3509 as either a prerequisite or co-requisite or approval of Department Chair.
Exclusions: Unavailable to students with credit for ITEC426 or ITEC437.

Working as team members on an IT related project, students apply skills acquired in previous IT courses. The instructor adopts the role of IT manager as the student project groups assume responsibility for all aspects of project completion. Project teams are expected to work outside scheduled classroom hours to ensure that client project requirements are met.

ITEC4513 Server Technologies

Credits: 3
Prerequisites: ITEC1505 and ITEC4507, or approval of the Department Chair.
Exclusions: Unavailable to students with credit for ITEC427.

This advanced hardware course provides coverage of the key features and technologies involved with PC server administration and the hardware components of high-end PC servers. Topics covered include server planning, server power and rack installation, hard disk interfaces and RAID, server upgrades, disaster planning, performance monitoring, and troubleshooting. This course prepares students to take the Computer Technology and Industry Association's (CompTIA) vendor-neutral Server+ certification.

ITEC4514 Technical Entrepreneurship

Credits: 3
Exclusions: Unavailable to students with credit for ITEC428 or ITEC311.

Course focuses on the nature of entrepreneurship in the context of specialized technology firms.

ITEC4515 Information Technology Documentation

Credits: 3
Exclusions: Unavailable to students with credit for ITEC415.

This course deals with technical documentation concepts specific to the information technology sector. Topics covered include systems and end user documentation, help and readme files, writing for the Web, screen design considerations, indexing and markup language concepts. Students will investigate the use of current multimedia technologies for IT documentation purposes, develop a career portfolio and produce a group preliminary project design report.

LEGAL STUDIES (LEGL)

LEGL2501 Business Law I

Credits: 3
Exclusions: Unavailable to students with credit for BUSS251.

COURSE DESCRIPTIONS

Business Law I introduces the student to the justice system, tort law and contract law. The course content includes an introductory study of specific areas of contract law including agency, property, employment, marketing, business organizations and financing.

LEGL2503 Business Law II

Credits: 3
Exclusions: Unavailable to students with credit for BUSS252.

Business Law II involves a more extensive study of specific legal issues relating to patents, copyrights, trademarks, industrial designs, confidential information, computer security, privacy, access to information, PIPEDA requirements, competition and lobbying.

LEGL3501 Legal Research

Credits: 3
Exclusions: Unavailable to students with credit for LEGL351.

This course will develop the skills required for performing legal research. The course includes instruction in finding appropriate legislation, determining its effect on a given situation in light of the Constitution Act and the Charter of Rights and Freedoms. The course builds an understanding of the court hierarchy and the theory of precedent by application of the relevant court decisions on factual situations. Evaluation includes examination and exercises that increase in difficulty requiring the student to develop researching skills. The course requires students to become familiar with computer-assisted research.

LEGL3503 Administrative Law

Credits: 3
Prerequisites: LEGL3501 and LEGL2501, or permission of instructor.
Exclusions: Unavailable to students with credit for LEGL353.

To acquaint the student with the administrative tribunal process involved in approval/licensing/arbitration issues involved in business operations. Evaluation may consist of examinations, report papers, and mock hearings.

LEGL 3504 Employment/Labour Law

Credits: 3
Exclusions: Unavailable to students with credit for LEGL397.

The course acquaints the student with the law that affects the relationship between employees and employers in unionized and non-unionized workplaces. The course content includes a review of the legal issues associated with the hiring process, issues during the course of employment and issues at the termination of the employment relationship.

LEGL3505 Criminal Law

Credits: 3
Exclusions: Unavailable to students with credit for LEGL352.

To acquaint the student with the criminal law and quasi-criminal law system in Canada, with a special emphasis on crime and business. The course content will include areas such as money laundering, insider trading, criminal negligence, and managers' and directors' liabilities. Evaluation is by examination and report papers.

LEGL4501 Health Law

Credits: 3
Exclusions: Unavailable to students with credit for LEGL471.

The study of the civil and criminal liability associated with offering health care services. The concentration is on the legislation and common law affecting health care. The course is presented in a seminar format. Some of the areas covered include consent, medical negligence, evidential issues, nursing liability, and confidentiality. Evaluation is by examination and report papers.

LEGL4503 Sports/Recreation Law

Credits: 3
Exclusions: Unavailable to students with credit for LEGL481.

A review of the case law and legislation affecting recreational sporting activities. The course includes an overview of the issues of liability. The course is presented in seminar format. Evaluation is by examination and report papers.

LEGL4701 Special Topics in Legal Studies

Credits: 3
Prerequisites: Academic regulations criteria and permission of the department.

Provides an opportunity to deepen studies in an area of legal studies not available within the regular course offerings. See Dean or Department Chair for details.

MANAGEMENT (MGMT)

Courses marked 🖱 are also offered by distance.

🖱 MGMT1601 Introduction to Canadian Business

Credits: 3
Exclusions: Unavailable to students with credit for BUSS111.
A BBA core requirement.

This introductory course offers an overview of the Canadian business organization and environment, presenting up-to-date issues that shape today‘s business world. Topics representing accounting, economics, finance, marketing, production, human resources, managerial concepts, and organizational structures provide a foundation for further business studies.

MGMT2101 Government-Business Relations in Canada Cross-listed with POLS2116

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for BUSS272 or POLS263.

Offers a general overview of the close relationship between governments and businesses in this country. Probes the power relations at work, the many points of common interest and the reasons for friction between government and business. Includes discussion of the methods by which these complex relationships are managed. The course is of equal interest to Business Administration and Political Science students.

MGMT2604 Organizational Behaviour I

Credits: 3
Exclusions: Unavailable to students with credit for BUSS261 or BUSS260.

An introduction to organizational behaviour that will present the multi-faceted, multi-discipline foundations of the subject. Students will explore the major concepts including individual values, personality, perception, learning, workplace emotions and attitudes, motivation, as well as team dynamics, communicating in organizations, conflict and negotiation and leadership, organizational structure and design, organizational culture, and organizational change.

MGMT3605 Organizational Behaviour II

Credits: 3
Prerequisites: MGMT2604.
Exclusions: Unavailable to students with credit for BUSS262 or BUSS260.

This course continues the study of organizational behaviour by focusing on managing effective organizations. Topics include organizational processes, structure, development, and change.

MGMT3601 Administrative Problem Solving

Credits: 3
Prerequisites: MGMT2604.
Exclusions: Unavailable to students with credit for BUSS311.

Examines individual and group problem solutions to a wide variety of management issues. Organizational case problems and group project.

MGMT3603 Management of Small Business

Credits: 3
Prerequisites: MGMT2604 or permission of instructor and MRKT3301.
Exclusions: Unavailable to students with credit for BUSS312.
A BBA core requirement.

This course will explore the key issues and challenges facing management in organizations that are experiencing growth. Strategies used in successful businesses will be examined to foster growth while minimizing risk. The development of a comprehensive business plan for a new or existing business will involve the student in this management process.

MGMT3604 Industrial Relations

Credits: 3
Exclusions: Unavailable to students with credit for BUSS362.

This foundational course places emphasis on the employment relationship in a unionized workplace. Lectures, readings, simulations and assignments will serve to acquaint the student with the structure and functioning of the Canadian industrial relations system, basic employment law concepts, the union certification process, negotiation and administration of collective agreements and strikes and dispute resolution. A bargaining simulation is an integral component of the course.

MGMT2605 Human Resource Management

Credits: 3

Exclusions: Unavailable to students with credit for BUSS363.

Deals with the traditional human resource (HR) functions: recruitment and selection, training and development, career management, compensation and performance management. Current HR issues such as innovative workplace practices, occupational health and safety, workplace education and changing HR functions will also be considered.

MGMT3606 Leadership in Organizations

Credits: 3
Prerequisites: MGMT2604.
Exclusions: Unavailable to students with credit for BUSS364.

Introduces leadership from the social sciences perspective. With an emphasis on interpersonal skills, the study of this course focuses on leadership theory, research and applications in modern organizations.

MGMT3607 Introduction to International Business Management

Credits: 3
Exclusions: Unavailable to students with credit for BUSS391.
A BBA core requirement.

Since Canada is heavily involved in global trade relationships with many countries, the course examines the nature and impact of international trade, trading blocks, and the financial instruments that facilitate world trade.

MGMT4603 Diversity Issues in Management

Credits: 3
Prerequisites: MGMT2604 and MGMT3605.
Exclusions: Unavailable to students with credit for BUSS464.

Examines the changing workplace demographics, specifically addressing how we manage differences at work. A number of topics are covered which are representative of the new workforce characteristics, including racial differences, women at work, alternative lifestyles, the ageing workforce, the disabled and organizational response to diversity.

MGMT4604 Organizational Development

Credits: 3
Prerequisites: MGMT2604 and MGMT3605 or permission of the instructor.
Exclusions: Unavailable to students with credit for BUSS465.

An examination of the process of change in organizations. Strategies for improving the effectiveness of an organization and meeting the needs of employees, managers, owners, customers and other stakeholders are explored.

MGMT4605 Business Competitive Strategies

Credits: 3
Prerequisites: All other BBA core courses.
Exclusions: Unavailable to students with credit for BUSS471.

The formulation and implementation of long-range decisions which focus on corporate strategy and corporate citizenship.

MGMT4606 Tourism Management

Credits: 3
Exclusions: Unavailable to students with credit for BUSS493.

Through case study and seminar, this course examines the approaches used worldwide in the management of the tourism product. National, regional and local situations will be assessed.

MGMT4607 Tourism Strategy

Credits: 3
Prerequisites: ACCT1203, MGMT4606, HATM3124, HATM3505 or permission of instructor.
Exclusions: Unavailable to students with credit for BUSS495.

This is the capstone course for the Bachelor of Hospitality and Tourism Management Degree. A critical study into the development of strategic hospitality and tourism plans, providing the foundation upon which hospitality and tourism planning and implementation is based.

MGMT4701 Special Topics in Management

Credits: 3
Prerequisites: Academic regulations criteria and permission of the department.

Provides an opportunity to deepen studies in an area of management not available within the regular course offerings. See Dean or Department Chair for details.

MANAGEMENT SCIENCE (MGSC)

Courses marked are also offered by distance.

MGSC1101 Mathematics for Business

Credits: 3
Exclusions: Unavailable to students with credit for BUSS101.

Focuses on weaknesses in quantitative skills needed to solve and interpret business-oriented word problems. Designed with an emphasis on algebra to help prepare students for business calculus.

MGSC1108 Introduction to Statistics

Credits: 3
Exclusions: Unavailable to students with credit for BUSS182. Credit for MGSC1108 or BUSS182 rules out credit for MATH1109.
A BBA core requirement.

A course in statistics which introduces the student to basic probability concepts; descriptive measures; probability distributions, including the binomial and normal distributions and their properties; estimation; hypothesis testing; Chi Square analysis; and linear regression and correlation. Computer applications will also be illustrated using a statistical package. A BBA core requirement.

MGSC1109 Calculus for Business

Credits: 3
Exclusions: Unavailable to students with credit for BUSS281.
A BBA core requirement.

COURSE DESCRIPTIONS

This course provides a mathematical foundation for business students, showing how mathematical concepts can be applied to describe business and economic phenomena. Topics covered include rational and polynomial functions, the mathematics of finance, limits and continuity, derivatives with applications including maxima and minima and integral calculus.

MGSC2101 Computers in Business

Credits: 3
Prerequisites: MGSC1109 or permission of the department.
Exclusions: Unavailable to students with credit for BUSS181.
A BBA core requirement.

Introduces students to the use of the computer in the solution of business problems. Includes computer literacy and use of MS Office microcomputer software (Excel spreadsheet and Access database management). Hands-on lab sessions are an integral part of the course.

MGSC2103 Quantitative Methods

Credits: 3
Prerequisites: MGSC1108.
Exclusions: Unavailable to students with credit for BUSS282.
A BBA core requirement.

Introduces students to quantitative tools available for business decision making, focusing on problem solving through model building. Topics include: decision theory including decision trees, inventory models, linear programming and applications including sensitivity analysis, networking, forecasting and simulation. Strongly recommended that this course be taken after MGSC2101 and MGSC1109.

MGSC3101 Information Systems for Management

Credits: 3
Prerequisites: ACCT1204 and MGSC2101.
Exclusions: Unavailable to students with credit for BUSS284.

Introduction to key issues associated with the use of information systems and technology in organizations. This course examines how information resources are integrated to provide working information systems designed to support organizational operations and decision making. This includes an introduction to tools and techniques used in information systems analysis and design, and a review of alternative approaches to systems development. Emphasis is placed on how to adopt, use, and manage information technology to gain a comprehensive advantage. Cases will be used to cover a wide range of issues.

MGSC4701 Special Topics in Management Science

Credits: 3
Prerequisites: Academic regulations criteria and permission of the Department.

Provides an opportunity to deepen studies in an area of management science not available within the regular course offerings. See Dean or Department Chair for details.

MANUFACTURING (MANF)

Courses marked are also offered by distance.

MANF3131 Total Quality Management

Credits: 3
Exclusions: Unavailable to students with credit for MANF411.

The course will prepare the student for working in competitive manufacturing/economic environments in which the operation and final product must consistently meet the needs and expectations of customers. Topics include rationale for total quality concepts, leadership, management teams, employee involvement/empowerment, team building, influence of Juran and Deming and the process for continuous improvement. The role of ISO 9000 in TQM, including scope of standards, benefits of implementation, documentation of ISO audits, and procedures for implementing ISO certification, is covered in detail.

MANF3133 Statistical Process Control

Credits: 3
Exclusions: Unavailable to students with credit for MANF413.

The course will examine the statistical methods used to identify, analyze and control the variations found in any manufacturing process. Key topics include identification of process variations, charting, histograms and analytical methods of analyzing control charts. Several case studies utilizing in-depth applications of SPC in an industrial/manufacturing environment will be examined.

MANF3134 Manufacturing Processes and Standards

Credits: 3
Exclusions: Unavailable to students with credit for MANF415.

This course will introduce the student to the most important technical principles of manufacturing processes including casting, forging, rolling, drawing, extrusion, forming, joining and finishing processes. Includes application of codes and national and international standards.

MANF3135 Production Cost Control

Credits: 3
Exclusions: Unavailable to students with credit for MANF417.

Production cost control in an ever-increasing technological environment has become the leading determinant of organizational viability. This course will look at costing for manufacturing environments, including break even analysis, forecasting, job scheduling, labour costs, work measurement, material and inventory cost, MRP, and SAP inventory control. The decisions affecting the manufacturing process can be based upon the complete integration of engineering input, raw materials, processing costs and inventory.

MANF3136 Competitive Manufacturing Studies

Credits: 3
Exclusions: Unavailable to students with credit for MANF419.

This course covers many areas of manufacturing, with a view to increasing awareness of improved production for less cost, at a higher quality thereby becoming more competitive. Discussion on philosophies and manufacturing strategies, Japanese production methods, factory layout techniques and tools for competitive study. It is assumed that the student has a working knowledge of manufacturing production terms and methods (MANF 417 Production Cost Control).

MANF3137 People in Manufacturing

Credits: 3
Exclusions: Unavailable to students with credit for MANF421.

This course focuses on people involved in manufacturing processes with an emphasis on team work, ergonomics, programs, and total quality initiatives. Case studies and investigation into company practices form the majority of course work.

MANF3138 Product Synthesis

Credits: 3
Exclusions: Unavailable to students with credit for MANF423.

Covers the process whereby an idea or design is converted into a successful new product. Production methodology, design for manufacture, process planning, prototyping, and tooling implementation are discussed. How ideas are marketed, implemented, and exploited are discussed.

MARKETING (MRKT)

Courses marked are also offered by distance.

MRKT1301 Introduction to Marketing

Credits: 3
Exclusions: Unavailable to students with credit for BUSS231.
A BBA core requirement.

Examines the concept of markets, market studies, market segmentation, consumer behaviour and the development of marketing strategies. Text and case materials.

MRKT2301 Consumer Behaviour

Credits: 3
Prerequisite: MRKT1301.
Exclusions: Unavailable to students with credit for BUSS232.

Explores the application of the social sciences in the decision-making process and what influences they should have in the development of marketing strategies. Field experiments, research techniques and current research.

MRKT2303 Advertising and Sales Promotion Management

Credits: 3
Prerequisite: MRKT1301.
Exclusions: Unavailable to students with credit for BUSS233.

An introduction which studies how consumer behaviour provides a base for paid communications as a management tool to accomplish marketing objectives.

MRKT3124 Tourism Marketing I

Credits: 3

Exclusions: Unavailable to students with credit for BUSS393 or HATM361.

Geography as seen through the eyes of a travel professional. Emphasis is placed on the world's more popular destinations. A major project selected by students will form a large part of this course. An excellent opportunity to study about a place one would like to visit.

MRKT3301 Marketing Management

Credits: 3
Prerequisites: MGSC2101 and MRKT1301.
Exclusions: Unavailable to students with credit for BUSS331.
A BBA core requirement.

A study of the major decision areas of marketing from the viewpoint of the marketing manager. Utilizes text, labs, case materials and a computer simulation.

MRKT3303 Industrial Marketing

Credits: 3
Prerequisites: MRKT1301.
Exclusions: Unavailable to students with credit for BUSS332.

Deals specifically with business-to-business marketing from opportunity identification through the development of an appropriate marketing mix to the preparation of a strategic marketing plan. Course includes customer and product audits.

MRKT3304 Marketing Channels

Credits: 3
Prerequisites: MRKT1301.
Exclusions: Unavailable to students with credit for BUSS334.

The course focus is channel management: changes in purchasing behaviour warrant changes in the methods used to make goods/services available to the customer.

MRKT3306 Promotion Strategy & Management

Credits: 3
Prerequisites: MRKT1301.
Exclusions: Unavailable to students with credit for BUSS337.

The generic components required to move from a marketing plan to a promotional plan. This is accomplished through the development of promotional strategies.

MRKT3307 Public Relations Management

Credits: 3
Prerequisites: MRKT1301.
Exclusions: Unavailable to students with credit for BUSS339.

An introduction to public relations management which examines and provides an appreciation of the use of publicity as a management tool to accomplish corporate objectives and an understanding of public relations as a major component of corporate communications.

MRKT3309 Tourism Marketing II

Credits: 3

Exclusions: Unavailable to students with credit for BUSS394.

An examination of the travel and tourism market from a research and development perspective.

MRKT4300 Marketing Research

Credits: 6
Prerequisites: MGSC1108 and MRKT1301.
Exclusions: Unavailable to students with credit for BUSS430.

Participants will conduct an actual marketing research project. The first term will involve fieldwork to collect the required data. The second term will focus upon the analyses of the data (SPSS), report writing and client presentations. The support of the Marketing Research Centre provides the facility and opportunities for this research.

MRKT4304 Sales and Sales Management

Credits: 3
Prerequisites: MRKT1301.
Exclusions: Unavailable to students with credit for BUSS431.

Understanding the decision-making skills which are necessary for the operation of an effective sales organization.

MRKT4305 Marketing for Non-Profit Organizations

Credits: 3
Exclusions: Unavailable to students with credit for BUSS432.

Marketing from a limited budget point of view with equal applicability to both profit and non-profit organizations.

MRKT4306 International Marketing Management

Credits: 3
Prerequisites: MRKT1301.
Exclusions: Unavailable to students with credit for BUSS433.

A study of world markets: assessment, socioeconomic, cultural and legal environments, research and development of international markets, global markets and complex multinational marketing programs.

MRKT4307 Direct Marketing

Credits: 3
Prerequisites: MRKT1301.
Exclusions: Unavailable to students with credit for BUSS435.

A study of how marketers take products and services directly to the end user.

MRKT4308 Marketing Strategy

Credits: 3
Prerequisites: MRKT1301 and MRKT3301.
Exclusions: Unavailable to students with credit for BUSS439.

A study in the development of a strategic marketing plan and program which provides the foundation upon which marketing planning and implementation is based.

MRKT4309 Social Media Marketing

Credits: 3
Prerequisites: MRKT1301 or permission of instructor.
Exclusions: Unavailable to students with credit for BUSS447.

This course will provide students with an introduction to various aspects of social media marketing and online reputation management. Through a mixture of practical and theoretical work, students will learn how to develop strategy and implement social media campaigns effectively. Online tools to be explored include search engine marketing (SEM), email marketing, blogging, podcasts, online video, social networks, virtual worlds and social bookmarking.

MRKT4311 Retail Management

Credits: 3
Prerequisites: MRKT1301 or permission of instructor.
Exclusions: Unavailable to students with credit for BUSS456.

This course introduces students to the concepts, strategies, and trends associated with a retail operation in the Canadian marketplace. It explores the current retail environment and key retail management strategies from managing merchandise and employees, to advertising and promotion. The course incorporates environmental issues, including demographics, and economic and social issues into the discussion of retail operations. Key financial and profit formulas are also presented. The course involves both individual and group work and incorporates real-life case studies.

MRKT4313 Sustainable Marketing

Credits: 3
Prerequisites: MRKT1301 and MRKT3301.
Exclusions: Unavailable to students with credit for BUSS457.

This course aims to provide a comprehensive framework for understanding how environmental problems influence sustainable marketing and management strategy in business and in the public sector. This course will analyze and reflect on the relationship between sustainable development (SD), marketing , and all affected stakeholders. Special attention is given to the areas of market communication, environmental strategy, product development, sustainable pricing, and purchase behaviour.

MRKT4605 Aboriginal Cultural Tourism Marketing

Credits: 3
Prerequisites: MRKT1301 or permission of instructor.
Exclusions: Unavailable to students with credit for BUSS467.

This will examine aboriginal cultural tourism products and destination marketing as a field of study, investigating concepts that apply to the development of tourist products and attractions. Students will examine marketing as it relates to product development, promotion and authenticity. Aboriginal cultural destination branding, destination sustainability and the opportunities and challenges facing this unique tourist offering in an increasingly competitive tourism marketplace will be explored.

MRKT4701 Special Topics in Marketing

Credits: 3
Prerequisites: Academic regulations criteria and permission of the department.

Provides an opportunity to deepen studies in an area of marketing not available within the regular course offerings. See Dean or Department Chair for details.

MASTER OF BUSINESS ADMINISTRATION IN COMMUNITY ECONOMIC DEVELOPMENT (MBAC)

Students should consult the Director at **(902) 563-1467**, **ced@cbu.ca** for information about course prerequisites.

MBAC5101 Business and Community Development I

Credits: 3
Exclusions: Unavailable to students with credit for MBAD500.

Provides the theoretical and philosophical foundations of community economic development, identifying business as a way of achieving an enhanced quality of community life. Students are introduced to the language and concept of third sector structures such as community development corporations, worker-owned ventures, and similar initiatives.

MBAC5103 Fundamentals of Accounting with CED Applications

Credits: 3
Exclusions: Unavailable to students with credit for MBAD502.

A combination of financial and managerial accounting themes designed particularly for those working in a CED environment. The course next focuses on accounting from a manager's decision-making point of view; that is, as a person interpreting rather than preparing these statements. Issues relating to cash flow management, budgeting and relevant costs will be discussed.

MBAC5104 Fundamentals of Marketing with CED Applications

Credits: 3
Exclusions: Unavailable to students with credit for MBAD504.

The purpose of this course is to present the marketing dimensions as they apply to community and social organizations. It deals with both the strategic and tactical approaches to influencing behaviour in a wide range of key target markets, such as customers, clients, funding sources, policy makers, volunteers, the media and the organization's own staff. The community venture will be examined through the basic concept of the marketing mix.

MBAC5105 Organizational Behaviour

Credits: 3
Exclusions: Unavailable to students with credit for MBAD505.

The course presents the history, theory, models and research in several topics in organization behaviour and organization design, including strategic human resource planning. Class discussions, exercises and cases will be used to reinforce concepts and improve skills required in managing and motivating people.

MBAC5107 Economic Geography and Development

Credits: 3
Exclusions: Unavailable to students with credit for MBAD612.

Introduces students to the analytic tools that economic geographers use to measure and compare spatial variations in economic growth. The course describes the dominant economic mechanisms and processes of uneven development that

produce global cities, peripheral regions, and regional economies. Students will employ this background to study the attributes of a depleted community and to assess its potential for economic recovery.

MBAC6101 Business and Community Development II

Credits: 3
Prerequisites: MBAC5101.
Exclusions: Unavailable to students with credit for MBAD600.

This practical course will explore the relationship of business with the community and the challenges and issues surrounding community-based business institutions. This topic will be explored through the assigned readings, case studies and class discussion. The course will seek to draw from theories of CED and the social economy and compare them to examples of how community business and CED gets implemented.

MBAC6103 Fundamentals of Finance with CED Applications

Credits: 3
Prerequisites: MBAC5103.
Exclusions: Unavailable to students with credit for MBAD601.

Provides students with a comprehensive body of knowledge concerning management of the firm's financial affairs. The course covers financial analysis and planning, valuation of assets, long-term capital budgeting and capital structure decisions, short-term investment and financing decisions and tax principles influencing the organization's finance and investment decisions.

MBAC6106 Leadership Training and CED

Credits: 3
Prerequisites: MBAC5105.
Exclusions: Unavailable to students with credit for MBAD605.

The course uses a combination of lectures, discussions, cases and presentations to focus on leadership training techniques. It covers major issues in leadership and presents practical techniques for implementation. Learners will be able to analyze typical leadership problems and develop options for solutions, including means for conflict resolution and mediation. Emphasis is placed on cultural and political differences in the conduct of community organization and leadership training and their effect on outcomes.

MBAC6107 Comparative Development

Credits: 3
Exclusions: Unavailable to students with credit for MBAD608.

This course employs a comparative approach in the assessment of alternative development philosophies in both the North and South, especially those which attempt to define a sustainable community. It examines the influence of natural resources and governance on development, it synthesizes concepts of development and it examines strategies used to formulate action plans to achieve sustainability in communities. Learners will become skilled in thinking globally and acting locally and on using qualitative and quantitative indicators of sustainability.

MBAC6118 Fundamentals of Venture Analysis

Credits: 3
Prerequisites: MBAC5103 and MBAC5104.
Exclusions: Unavailable to students with credit for MBAD618.

COURSE DESCRIPTIONS

The course provides students with opportunities to apply knowledge acquired in prior experience and other business courses, in planning and developing a business venture. Students who complete this course will have a sound understanding of the process of developing a business plan and will be able to evaluate business plans. The course will also attempt to explore the differences between traditional business practice and community economic development.

MBAC6121 Applied Research Methods

Credits: 3
Exclusions: Unavailable to students with credit for MBAD603.

This survey course will provide students with an understanding of varying approaches to applied research, including qualitative, quantitative and ethnographic methods. Learners will be required to critically analyze the strengths and weaknesses of the methods. Participants will be encouraged to prepare their proposal for their major research essay and identify research methods appropriate to their research project.

MBAC6125 Strategic Management

Credits: 3
Prerequisites: MBAC6124.
Exclusions: Unavailable to students with credit for MBAD630.

Introduces students to the basic concepts and methodologies used in crafting and executing business strategy. The course provides the student with the opportunity to apply knowledge garnered in previous courses and to integrate it. Will use the case method extensively and will focus on strategic decision making in the CED context.

MBAC6204 Communication and Social Change

Credits: 3
Exclusions: Unavailable to students with credit for MBAD602.

The ideologies and conditions of the premodern, modern and postmodern worlds through their manifestations in cultural and technological artifacts.

MBAC6208 Information and Communication Technology and Economic Development

Credits: 3
Exclusions: Unavailable to students with credit for MBAD609.

This course focuses on the use of information technology in organizations and communities. It examines how organizations can use information technology as a tool to improve their effectiveness, enhance their competitive advantages and help transform the economy.

MBAC6209 Land Claims, Self-Government and Community Economic Development

Credits: 3
Exclusions: Unavailable to students with credit for MBAD610.

Provides an overview of the ever-changing environment in the political economy of First Nations communities in Canada. Models and cases of land claims and self-government are explored, with an emphasis on issues relevant to long-range planning and policy-making for community economic development.

MBAC6211 The Dynamics of Community Economic Development in First Nations

Credits: 3

Exclusions: Unavailable to students with credit for MBAD611.

A comparative course which analyses the social and economic conditions that distinguish urban and rural First Nation communities. Students discuss the different strategic approaches to community economic development that could be used in each case.

MBAC6214 Social Entrepreneurship

Credits: 3
Prerequisites: MBAC5101.
Exclusions: Unavailable to students with credit for MBAD613.

Social entrepreneurship refers to initiatives by citizens and community groups to respond to social needs. Social enterprises are blurring the lines between the sectors, taking for-profit, non-profit and hybrid forms of organization. The objective of this course is to introduce students to the concepts, practices and challenges of social entrepreneurship. Students will learn from examples of regional experiences and from case studies that illustrate the application of business skills in the social sector. The course discusses the impact of trust and social capital in communities and the use of the Balanced Scorecard to strengthen the management of the enterprise.

MBAC6215 Emergency Management

Credits: 3
Exclusions: Unavailable to students with credit for MBAD616.

This course is designed to facilitate a comprehensive understanding of the role of community economic development in preparing for and dealing with local and national emergencies and their consequences. Knowledge and skills acquired in this course will be directly transferable to international crises and disasters. The preparedness measures of various organizations are examined. Using a provided scenario, students prepare a CED plan, including concept, implementation and transfer/close-out aspects.

MBAC6217 Conflict Resolution and Community Reconstruction

Credits: 3
Exclusions: Unavailable to students with credit for MBAD617.

This course is designed to facilitate a comprehensive understanding of the role of community economic development in conflict prevention, conflict resolution and post-conflict restoration activities. Students will acquire knowledge and analytical insight in two significant aspects of the human condition: the origins and nature of conflict and the conditions necessary for peace. The course focuses on: security assurances attained by alliance building at all levels; prevention and resolution of conflict, the theory and practice of CED and its place in building secure communities and how CED initiatives are employed by civilian and military organizations.

MBAC6219 Social Leadership

Credits: 3
Prerequisites: MBAC6106.
Exclusions: Unavailable to students with credit for MBAD620.

The course discusses how modes of communication, distribution of power, values, sharing of knowledge and the ways people interact with others affects leadership. The purpose of the course is to help participants gain an understanding of the sociological, psychological and cultural factors that contribute to leadership behaviours and the ways in which people respond to them. It will provide practical tools with which participants can assess and improve their own leadership skills.

MBAC6221 Public Policy

Credits: 3
Prerequisites: First year of MBA (CED) core.
Exclusions: Unavailable to students with credit for MBAD621.

This course will examine the major theories relating to the policy-making process, the institutional, political and socio-economic contexts in which decisions are made and how those decisions have been implemented. Understanding the variety of means in which policies can be implemented is as important as the designing of public policy. In this respect, attention will be paid to the policy relationship between government and community economic development (CED) organizations. A number of CED public policy case studies will be used as pedagogical tools, in order to understand how the policy-making process has occurred, the other types of policy options which were available and what the results have been from particular policy decisions.

The policy-making process in Canada and in other major industrialized countries has changed significantly over the last two decades. Any individual or group can create an electronic platform in order to advance their policy objectives. Because of increased opportunities for citizen participation in policy-making, governments are increasingly being pressured to open the policy development process so that stakeholder groups and members of the “attentive” public can have input into the decision making.

MBAC6223 Government, Business and Third Sector Relations

Credits: 3
Prerequisites: First year of MBA (CED) core.
Exclusions: Unavailable to students with credit for MBAD623.

This course will explore the multi-layered relationships between government, business, and the third sector, in order to detail the political, institutional, and societal context in which businesses and non-profit/community economic development organizations operate. This exploration will provide a lively theoretical introduction to government/business relations. The course will discuss a wide range of ideological perspectives, which attempt to inform us as to what those relations should or should not be based upon.

The course includes an agenda setting exercise, by which participants attempt to project possible medium-term policy outcomes, regarding the most important issues concerning government/business/third sector relations.

MBAC6124 International Business

Credits: 3
Prerequisites: MBAC5103, MBAC5104, and MBAC5105.
Exclusions: Unavailable to students with credit for MBAD624.

This course focuses on the issues raised by doing business internationally. It examines the economic and financial environment, institutions and markets, and interrelationships of principal trade centres. It also discusses trade issues and strategic international management issues. The course is integrated across business functional areas.

MBAC6226 International Finance

Credits: 3
Prerequisites: MBAC6103.
Exclusions: Unavailable to students with credit for MBAD631.

This course provides a conceptual framework within which the key financial decisions of the multinational firm can be analyzed. The course considers the environment of international financial management, foreign exchange markets and

the tools that can be used to hedge exchange rate risks. The course covers methods used to manage accounting and economic exchange rate exposures and examines the financing options available to multinational financial managers and how cost of capital can be determined.

MBAC6227 Environment, Energy, and the Economy: Strategies for Sustainable Futures

Credits: 3
Prerequisites: First 12 credits of the MBA (CED) program.
Exclusions: Unavailable to students with credit for MBAD633.

The course provides a comprehensive examination of the environmental issues facing organizations and communities. The goal of the course is to prepare learners to help organizations understand sustainability and how it affects corporate strategy and public policy. The course builds on the concept of socially sustainable development, fused in the program's core curriculum and extends it to planning for sustainable environmental and energy futures at global, national, regional, and corporate levels; including a discussion of the impact of climate change agreements on energy consumption. It explores the tensions between growth, energy consumption and the environment; it aims to develop a holistic understanding of ecological, economic and social sustainability. It includes discussion of environment and energy risks, methods to value natural resources, effect of organizations environmental image and the relationship between environmental and financial performance. The course introduces the elements of environmental management systems through the use of case studies that can help government, business, community organizations and citizens move toward sustainable practice.

MBAC6228 International Marketing

Credits: 3
Prerequisites: MBAC5104.
Exclusions: Unavailable to students with credit for MBAD634.

This course focuses on the basic concepts of international marketing, the need for international marketing activities and global trade. It reviews institutions and markets, covers in-depth geography discussion and explores cultural and strategic marketing issues. The principle aim of the course is to internationalize theory and practice across the broad range of functional marketing areas.

MBAC6229 Sustainability Marketing

Credits: 3
Prerequisites: MBAC5104
Exclusions: Unavailable to students with credit for MBAD635.

The course aims to provide a comprehensive framework for understanding how environmental issues influence marketing in business, government and the social economy. The course follows the multiple-bottom-line approach built in the MBA (CED) program. Going beyond the concepts introduced in the core marketing course, it explores marketing theory and strategy as it relates to the objectives of organizations striving for social and environmental sustainability. Learners will study marketing implications for sustainability and critically analyze existing marketing systems. It reviews approaches to green marketing, focusing on sustainable ideas and behaviour.

MBAC6231 Marketing Strategy

Credits: 3
Prerequisites: MBAC5104.
Exclusions: Unavailable to students with credit for MBAD636.

This course focuses on developing effective marketing strategies that can serve as blueprint for marketing programs that build long-term success for the organization. Students learn basic branding principles and examine the branding strategies organizations employ to enhance positioning and deliver high levels of satisfaction to targeted customers and clients, sustain a competitive advantage and improve market performance and financial performance.

Learners will be able to conduct market and industry analyses, develop a competitive position and explain the meaningful competitive advantage of a firm. Learners will be able to formulate and assess marketing strategies and tactics that have value for the firm, customers, clients, partners and society at large. Issues of ethics, social responsibility, customer satisfaction and credibility arise throughout the course in readings, lectures, case studies and projects. The pre-assigned readings are supplemented by news coverage of current events. Case studies explore the benefits and risks of valuing socially focused brands.

MBAC6233 Contemporary Issues: Change Management and Governance

Credits: 3
Prerequisites: MBAC5105.
Exclusions: Unavailable to students with credit for MBAD640.

Change management and governance are two organizational issues that dominate managerial, board and regulatory time and resources because of their high degree of both risk and opportunity. The pace of change affecting organizations in the private, public and non-profit sectors has increased dramatically as a result of new enabling technologies and the need to respond to changing national and global political and market operating environments. This course provides the student with a theoretical underpinning for both cross-cutting issues, while also focusing on practical applications of that theory to real-life situations in all three economic sectors.

MBAC6801 Research Essay/Case Study

Credits: 3
Prerequisites: MBAC6121.
Exclusions: Unavailable to students with credit for MBAD625.

The research essay/case study will approach a problem in economic development in a holistic, multidisciplinary manner and will meet the highest academic standards. Students will ground their research in an existing or planned development initiative. A two-person supervisory committee, drawn from different disciplines, will oversee the preparation of this essay. There is no residency requirement for the research essay, which will be completed off site. The research essay/case study must be completed within one calendar year.

MATHEMATICS (MATH)

Mathematics is a branch of human endeavour which has undergone constant evolution, both internally and in its applications to other areas. Geometry and number theory are as old as the Pyramids, analysis and abstract algebra have been studied for three centuries; topology is a product of the twentieth century and category theory of the sixties. The common thread which unites these diverse branches of the subject is the imposition of structure on sets, in an effort to distil out the essential aspects of a situation and to establish the precise conditions which produce a given conclusion.

The classical applications of mathematics were in land surveying and later in optics, mechanics and electromagnetism. More recently, these two have evolved and expanded almost without limit to group theory, finding application to crystallography, topology to biological processes and statistics to economics, geology, psychology, sociology, education, environmental studies and many more. The aspect of this evolution which has been most striking to everyone, has been the development of computing machines, which have pervaded almost every facet of modern life.

Calculus Readiness Test

This test assesses the background of incoming students in algebra, functions, geometry and trigonometry. Results will be used to guide students into an appropriate calculus course. No student can be registered in MATH1101 or MATH1105 without having written this test and registration in MATH1101 or MATH1105 is limited to those with satisfactory results. Sittings will be held in early September. Go to www.cbu.ca and click on **Important Dates** for details.

Students who do not intend to register in either MATH1101 or MATH1105 do not have to write this test.

The Calculus Readiness test for students registering in a calculus course will be held in September 2011. This is a one hour test. It will be given online in B 1022, September 7,8, and 9 at 10:00 am and 2:00 pm each day. Also, September 13 and 15 at 4:00 pm. Please login in at www.cbu.ca to register for the Calculus Readiness Test (CRT) **MATH9000.**

To prepare, please bring **a writing implement (preferably two)**, **CBU ID number.** Use of a foreign **language dictionary** is permitted for students to who English is a second language. The dictionary is subject to inspection by the proctor. ****NO CALCULATION DEVICES OF ANY KIND****

Please Note:

The Calculus Readiness Test consists of 31 multiple-choice questions on the subjects of Algebra, Functions, Geometry and Trigonometry. A score of 19 or more qualifies you for MATH1105, between 12 -18 you may register for MATH1101.

One retest is allowed if you narrowly missed a cut-off point in the test:

- If you scored 17 or 18 and can score 19 or more on the retest you will be eligible for MATH1105.
- If you scored 10 or 11 and can score 12 or more on the retest you will be eligible for MATH1101.

Please contact Peggy Wright, (902) 563-1428, if you have questions. Or the School of Science and Technology (902) 563-1110.

MATH1101 Calculus with Elementary Functions and Analytic Geometry I

Credits: 3
Prerequisites: One of: (1) MATH0100 (Bridge Program); (2) MATH0101; (3) MATH1107; (4) Grade 12 Academic Precalculus Mathematics. In the case of (4), the student must also have written the Calculus Readiness Test and achieved a satisfactory standard (currently 12 out of 31).
Exclusions: Unavailable to students with credit for MATH111. Credit cannot be obtained for both MATH1101 and MATH1105; no more than 3 credits from MATH1101, MATH1203, and MATH1105 in a BSc in Mathematics.
NOTE: MATH1101 is allowed credit as a free elective in any discipline where it can be used for credit.

Properties of straight lines and conic sections, polynomial and rational functions, and derivatives of algebraic functions with applications.

MATH1105 Differential and Integral Calculus I

Credits: 3
Prerequisites: One of: (1) MATH0100 (Bridge Program); (2) MATH0101; (3) MATH1107 and MATH1208; (4) MATH1101; (5) Grade 12 Pre-calculus Mathematics. In the case of (5), the student must also have written the Calculus Readiness Test and achieved a satisfactory standard (currently 19 out of 31).
Exclusions: Unavailable to students with credit for MATH121. Credit cannot be obtained for both MATH1203 and MATH1105.

Limits and continuity, differentiation of algebraic, trigonometric, logarithmic and exponential functions, applications, and Fundamental Theorum of Calculus.

MATH1109 Introductory Statistics I

Credits: 3
Exclusions: Unavailable to students with credit for MATH135. Credit for MATH1109 or MATH135 rules out credit for MGSC1108 or BUSS182. Credit cannot be obtained for both MATH1109 or MATH135 and MATH 2106 or MATH243.

Descriptive statistics, elementary probability, binomial and normal distributions, sampling distributions, estimation and hypothesis testing, regression, and correlation.

MATH1114 Experiences in Mathematics II: Mathematics of Personal Finance

Credits: 3
Prerequisites: Grade 11 Academic Mathematics.
Exclusions: Unavailable to students with credit for MATH152. Free elective only in the BSc. Not recommended for students with Grade 12 Pre-calculus or Advanced Mathematics. MATH1114 and MATH1215 are independent and can be taken in either order. Arts students with Grade 12 Pre-calculus or Advanced Mathematics should consult with advisors in Mathematics to select suitable alternatives to MATH1114 and MATH1215.

Topics in simple and compound interest for management of personal and family finances. Lab exercises on spreadsheet software. Course includes lab component.

MATH1116 Introduction to Computing with C++

Credits: 3
Prerequisites: Grade 12 Academic Mathematics.
Exclusions: Unavailable to students with credit for MATH187 or MATH185.

The computer as a problem solving device. The importance of structure in problem solving and programming is emphasized. Students are expected to write and run C++ programs, including branches, loops, arrays, functions, file processing, and basic classes. Course includes lab component.

MATH1203 Calculus with Elementary Functions and Analytic Geometry II

Credits: 3
Prerequisites: MATH1101 or a grade of at least 40 in MATH1105.
Exclusions: Unavailable to students with credit for MATH112. Credit cannot be obtained for both MATH1203 and MATH1105.

Properties of trigonometric functions, exponential and logarithmic functions and their derivatives. Introduction to integration including approximate integration and polar coordinates.

MATH1204 Introduction to Matrix Algebra

Credits: 3
Prerequisites: MATH1203 or MATH1105 at least concurrently or permission of the instructor.
Exclusions: Unavailable to students with credit for MATH115.

The computational aspects of vectors, matrices, and systems of linear equations and linear transformations, as well as some elements of the theory of vector spaces essential for later applications.

MATH1206 Differential and Integral Calculus II

Credits: 3
Prerequisites: MATH1203 or MATH1105.
Exclusions: Unavailable to students with credit for MATH122.

Techniques of integration, application to areas, volumes, work, liquid pressure and arc length, inverse trigonometric, hyperbolic functions, infinite sequences and series, and Taylor's Theorem.

MATH1211 Introductory Statistics II

Credits: 3
Prerequisites: MATH1109.
Exclusions: Unavailable to students with credit for MATH136.

Continues the study of inferential statistics and includes library assignments and a practical project in data gathering.

MATH1215 Experiences in Mathematics I: Descriptive and Basic Inferential Statistics

Credits: 3
Prerequisites: Grade 11 Academic Mathematics.
Exclusions: Unavailable to students with credit for MATH153. Not a credit course in the BSc. Credit cannot be obtained for both MATH1109 or MATH135 and MATH1215 or MATH153. Credit for MATH1215 or MATH153 rules out credit for PSYC2101 or PSYC201. Not recommended for students with Grade 12 Pre-calculus or Advanced Mathematics. Credit cannot be obtained for both MATH1215 or MATH153 and MATH151.

An introduction to descriptive and basic inferential statistics, emphasizing the binomial and normal distributions. Lab exercises on word processing and the Internet. Course includes lab component.

MATH1216 Experiences in Mathematics: Fundamentals

Credits: 3
Prerequisites: Grade12 Academic Mathematics.
Exclusions: Unavailable to students with credit for MATH157. Credit cannot be obtained for both MATH1216 or MATH157 and MATH2101 or MATH205.

This course explores a number of the fundamental ideas of mathematics from an elementary viewpoint. Topics include sets, functions, symbolic logic, number systems, number theory, algebraic operations, and combinatorics. Problem solving will be emphasized throughout.

MATH1217 Introduction to Computer Applications

Credits: 3
Prerequisites: MATH1116.
Exclusions: Unavailable to students with credit for MATH189 or MATH186.

Introduces additional topics in C++ emphasizing object-based and object-oriented programming concepts. Includes strings, pointers, and dynamic data structures. Course includes lab component.

MATH2101 Discrete Mathematics

Credits: 3
Prerequisites: Grade 12 Pre-Calculus Mathematics or successful completion of at least one semester of university mathematics other than programming.
Exclusions: Unavailable to students with credit for MATH205 or MATH105.

Significant ideas of discrete mathematics: set theory, logic, mathematical induction, combinatorics, graph theory, and finite state machines.

MATH2103 Linear Algebra

Credits: 3
Prerequisites: MATH1204.
Exclusions: Unavailable to students with credit for MATH226.

An introduction to abstract vector spaces, building on the concrete examples of MATH1204. Includes diagonalization, inner products, and Jordan Normal Form.

MATH2106 Elementary Mathematical Statistics I

Credits: 3
Prerequisites: MATH1203 or MATH1105.
Exclusions: Unavailable to students with credit for MATH243. Credit cannot be obtained for both MATH2106 or MATH243 and MATH1109 or MATH135.
Satisfies half of the research methods requirement in BSc, Mathematics.

An introduction to mathematical statistics for students in science including probability, discrete and continuous distributions, correlations, covariance, sampling distributions, and estimation.

MATH2109 Multivariate Calculus

Credits: 3
Prerequisites: MATH1206.
Exclusions: Unavailable to students with credit for MATH262.

Parametrically defined curves and polar co-ordinates. Functions of several variables. Limits, continuity, and differentiability, chain rule, extrema of multivariate functions, lagrange multipliers, cylindrical and polar co-ordinates, multiple integrals, application to volume, surface area, moments, and gravitation, vector fields and space curves, gradient, divergence, and curl, line integrals and independence of path and Green's theorem.

MATH2113 Mathematics for Chemistry I **Cross-listed with CHEM3201**

Credits: 3
Prerequisites: MATH1105 or equivalent and 9 credits in Chemistry.
Exclusions: Unavailable to students with credit for MATH251 or CHEM301.

Topics covered will include the application of ordinary differential equations, vector algebra, matrices, determinants, and operators to such areas of chemistry as point group theory, modern molecular orbital theory, factor analysis and eigenvalue problems. Course includes lab component. Normally offered every other year.

MATH2207 Mathematical Statistics II

Credits: 3
Prerequisites: MATH2106.
Exclusions: Unavailable to students with credit for MATH 244. Credit cannot be obtained for both MATH2207 or MATH244 and MATH1211 or MATH136.

A continuation of inferential statistics to include central limit theorem, regression and correlation, maximum likelihood principle, ANOVA, and non-parametric tests.

MATH2208 Differential Equations I

Credits: 3
Prerequisites: MATH1206.
Exclusions: Unavailable to students with credit for MATH257.

Introduction to differential equations, methods for solving first order equations, second-order linear equations, equations having constant coefficients, applications of first- and second-order equations including circuits, mixing and cooling problems, exponential growth, and decay. Also, the Laplace transform and its application to constant coefficient equations, convolution and the gamma function, introduction to Fourier series, full- and half-wave expansions, Fourier series on general intervals, spectral analysis and the complex form of the Fourier series.

MATH2211 System Analysis

Credits: 3
Prerequisites: One 3-credit programming course, preferably MATH1116.
Exclusions: Unavailable to students with credit for MATH271.

Study of the software design process ranging from an ill-defined problem through to specifications. Functional decomposition and data dictionaries, Top-down structured, data driven and object-oriented analysis techniques. Laboratory and assignment work will address the analysis of complex systems using different techniques.

MATH2214 Mathematics for Chemistry II Cross-listed with CHEM3203

Credits: 3
Prerequisites: MATH1105 or equivalent and 9 credits in Chemistry, and an introductory course in computing applications.
Exclusions: Unavailable to students with credit for MATH252 or CHEM302.

An overview of modern computer applications in Chemistry. Topics will include use of software packages for molecular modeling, solution of simultaneous linear equations, linear and nonlinear least squares regression on systems with two and three parameters and interpolation of experimental data. Course includes lab component. Normally offered every other year.

MATH3104 Set Theory

Credits: 3
Prerequisites: MATH2101 and MATH2103, or permission of instructor.
Exclusions: Unavailable to students with credit for MATH305.

A study of elementary ideas of sets, axiom systems and the Continuum hypothesis introduction to independence. (Normally offered in alternate years.)

MATH3105 Numerical Analysis

Credits: 3
Prerequisite: MATH1204, MATH1116, MATH1206.
Exclusion: Credit cannot be obtained for MATH 3105 and MATH 2214/CHEM 3203
Exclusions: Unavailable to students with credit for MATH307.

This course provides an introduction to numerical techniques for solving practical problems and a piece of numerical software package such as MATLAB or MAPLE. Topics will generally include: Taylor series expansions, numerical differentiation and integration, approximation and errors, roots of non-linear equations, numerical solution of linear and nonlinear system and numerical solution of ordinary differential equations.

MATH3106 Physical Applications of Mathematics

Credits: 3
Prerequisites: MATH2109.
Exclusions: Unavailable to students with credit for MATH321.

Vector algebra and calculus are used to describe, analyze and discuss selected topics in physical science. Offered as required.

MATH3108 Linear Optimization

Credits: 3
Exclusions: Unavailable to students with credit for MATH331.

Optimization is a key factor in the solution of a variety of problems in science, engineering and business. This course will cover theory and applications of linear programming in production and diet problems, explain the computation and geometric theory of the simplex method and present duality theory in simple fashion. Normally offered in alternate years.

MATH3109 Introduction to Complex Analysis

Credits: 3
Prerequisites: MATH2208 and MATH2109.
Exclusions: Unavailable to students with credit for MATH363.

An introduction to complex numbers, definition of the complex exponential function, analyticity and its consequences, representations of complex functions and singularities. Complex integration, residue theorem and principle of the argument will be studied. (Normally offered in alternate years.)

MATH3113 Introduction to Real Analysis

Credits: 3
Prerequisites: MATH2208 and MATH2109 and either MATH2101 or MATH2103.
Exclusions: Unavailable to students with credit for MATH361.

An introduction to the structure of the real number system and fundamental properties of real functions, including the Riemann integral and sequences of functions. (Normally offered in alternate years.)

MATH3205 Combinatorics

Credits: 3
Prerequisites: MATH2101.
Exclusions: Unavailable to students with credit for MATH315.

A brief overview of enumerative combinatorics. Sampling of combinatorial problems from computer science, graph theory, statistics and counting labeled and unlabeled structures. Normally offered in alternate years.

MATH3207 Introduction to Number Theory

Credits: 3
Prerequisites: MATH2101 or permission of instructor.
Exclusions: Unavailable to students with credit for MATH325.

Divisibility properties of integers, prime numbers and congruences. Number theoretic functions, quadratic congruences, continued fractions, arithmetic in other bases, cryptology, error correcting codes will be covered.

MATH3209 Probability and Mathematical Statistics

Credits: 3
Prerequisites: MATH2106 and MATH2207 and/or permission of instructor.
Exclusions: Unavailable to students with credit for MATH343.

Classical models, conditional and marginal probabilities and expectations, functions of random variables, limit theorems, Markov chains and sampling distribution. Offered as required.

MATH3211 Differential Equations II

Credits: 3
Prerequisites: MATH1204, MATH2208, MATH2109 and MATH2103 are recommended.
Exclusions: Unavailable to students with credit for MATH357.

This course is a continuation of MATH2208. Fundamental solutions of linear differential equations. Existence and uniqueness of solutions Abel's identity, linear independence and Wronskians, special functions defined by linear equations including an introduction to hypergeometric functions, linear and nonlinear systems of equations, analysis of stability of critical points, Picard iteration and introduction to Lyapunov functions. Normally offered annually.

MATH3214 Non-linear Optimization

Credits: 3
Exclusions: Unavailable to students with credit for MATH332.

Non-linear programming provides excellent opportunity to explore an interesting variety of pure and applicable mathematics, numerical analysis and computing. This course will cover the mathematical foundations of optimization. Some of the ideas and techniques involved in optimization, using calculus, lead to study of convexity. Basic numerical methods, least squares, the Kuhn-Tucker theorem, penalty functions and Lagrange multipliers are also covered. Offered as required.

MATH3801, 3803 Directed Study in Mathematics

Credits: 3, 3

Directed study in Mathematics for third year students. See Department Chair for details.

MATH4101 Graph Theory

Credits: 3
Prerequisites: MATH2101 and MATH1204 or permission of instructor.
Exclusions: Unavailable to students with credit for MATH415.

Isomorphism, operations on graphs and Ulam's reconstruction conjecture, walks, trees, distance, graph matrices, and Eulerian and Hamiltonian cycles, matchings, independent sets, graph factoring, colouring of vertices and edges, chromatic polynomials. Planarity, the Platonic solids and an outline of the four colour theorem are also studied.

MATH4103 Modern Algebra I

Credits: 3
Prerequisites: MATH2103.

Exclusions: Unavailable to students with credit for MATH421.

A study of groups and semi-groups, including permutation groups, Cayley's Theorem, the Isomorphism Theorems and Sylow Theorems. Offered as required.

MATH4105 Introduction to General Topology

Credits: 3
Prerequisites: MATH2101 and MATH3113 or permission of instructor.
Exclusions: Unavailable to students with credit for MATH471.

Metric spaces, topologies and topological spaces, continuity and homeomorphism, separation axioms, compactness and variations thereon, cardinal invariants and applications to geometry and analysis. Offered as required.

MATH4204 Modern Algebra II

Credits: 3
Prerequisites: MATH4103.
Exclusions: Unavailable to students with credit for MATH422.

A study of rings and fields, including topics in module theory, solvability by radicals and the classical problems. Offered as required.

MATH4205 Partial Differential Equations

Credits: 3
Prerequisites: MATH 2103,2109,3211 or special permission by the instructor.
Exclusions: Unavailable to students with credit for MATH457.

This course serves as an introduction to the theory and techniques of partial differential equations that are relevant to mathematicians, scientists and engineers. Topics to be studied include the classical Partial Differential Equations of mathematical physics (Heat-Diffusion equation, Wave equation and Laplace's equation), the method separation of variables, Eigenvalue problems, Fourier series (in multiple dimensions), orthogonal sets of functions, orthogonal series expansions and Sturm-Liouville theory.

MATH4801, 4803 Directed Study in Mathematics

Credits: 3, 3

Directed study in mathematics for fourth-year students. See Department Chair for details.

MATH4900 Honours Thesis in Mathematics

Credits: 6
Prerequisites: Admission and forth-year standing in the BSc (Honours) Mathematics program.

This course includes the preparation of an original research proposal, completion of the proposed research project, analysis of the data, preparation of a written thesis and oral defence of this thesis. Students planning to register in this course must consult the Department Chair in the term preceding the expected start date of the project. Consult the Department Chair for details.

MATHEMATICS – ENGINEERING TECHNOLOGY (MATH)

MATH1107 Mathematics I

Credits: 3
Prerequisites: Grade 12 Academic Mathematics.
Exclusions: Unavailable to students with credit for MATH131.

Fundamental concepts and operations of mathematics including functions and graphs, quadratic equations, trigonometric functions and solutions to triangles and systems of equations.

Caution: Credit for MATH1107, MATH1208, MATH2104 and MATH2205 in degree programs is limited to those BET programs where they are explicitly listed and to satisfying the Group 5 requirement within the core of the BA, and as specified under CBU's "Internal Transfer Credits".

MATH1208 Mathematics II

Credits: 3
Prerequisites: MATH1107.
Exclusions: Unavailable to students with credit for MATH132.

Complex numbers, exponential and logarithmic functions, trigonometric identities, plane analytical geometry, introduction to limits and differentiation.

MATH2104 Mathematics III

Credits: 3
Prerequisites: MATH1208.
Exclusions: Unavailable to students with credit for MATH233.

Applications of the derivative, Newton's Method, curvilinear motion, maximum and minimum problems, derivatives of sine and cosine functions and introduction to integration.

MATH2205 Mathematics IV

Credits: 3
Prerequisites: MATH2104.
Exclusions: Unavailable to students with credit for MATH234.

Differentiation of transcendental functions and applications, areas and volumes by integration, methods of integration, and introduction to differential equations.

MECHANICAL ENGINEERING – TECHNOLOGY (MECH)

Most industries today are highly mechanized. Areas such as manufacturing, mining, transportation and power, all of which are essential to a modern society, would be impossible without the machines and components which form the field of study for the mechanical technologist.

Due to rapid advances in automation and the rapid spread of CAD/CAM technology which creates new positions, the future of the mechanical technologist is bright.

The content of the course is broad in order to meet the challenges of a rapidly expanding field. The mechanical technologist receives a thorough grounding in physics, mathematics, and force and energy systems; supplemented by drafting, mechanical design, thermodynamics, heat engines, physical metallurgy, fluid power and air conditioning. These latter subjects are more directly applicable to industry.

MECH2133 Tools, Fixtures and Gauging

Credits: 3
Prerequisites: MECH2164, MECH2137.
Exclusions: Unavailable to students with credit for MECH275.

Types of tooling systems and fixturing methods utilized in CNC manufacturing and methods of inspection and gauging. Topics include: tooling and tool programs for machining centres, EDM, open set-up gauging, functional gauging and coordinate measuring.

MECH2134 Machine Design II

Credits: 3
Prerequisites: ENGI1164.
Exclusions: Unavailable to students with credit for MECH385.

This course focuses on the design and selection of power transmission components.

MECH2137 Geometric Tolerancing

Credits: 3
Prerequisites: DRAF1163.
Exclusions: Unavailable to students with credit for MECH293.

Application of dimensional philosophy based on the function and manufacture of parts for production. Topics include coordinate and positional tolerancing, form and orientation tolerancing, run-out, co-axial methods, functional gauging concepts, and 3D part analysis.

MECH2161 Thermodynamics

Credits: 3
Prerequisites: PHYS1101 and PHYS1201.
Exclusions: Unavailable to students with credit for MECH224.

The relationship between heat and work and the efficiency of the conversion process, first and second laws. Emphasis is placed on the process involved in a modern steam Electrical Power Generation Plant.

MECH2163 Material Science

Credits: 3
Prerequisites: MECH2165.
Exclusions: Unavailable to students with credit for MECH234.

Continues the metallurgy course to include the heat treating and properties of ceramics, carbides and plastics. An introduction to welding practice and technique is included. Laboratory experiments augment the lecture information.

MECH2164 CAD/CAM

Credits: 3
Prerequisites: ENGI1161 and DRAF1163.
Exclusions: Unavailable to students with credit for MECH263.

Advanced computer-aided drafting, utilizing Unigraphics software and CNC Milling operations and programming. Hands-on approach to computer-aided drafting.

MECH2165 Metallurgy

Credits: 3
Exclusions: Unavailable to students with credit for MECH273.

The fundamentals of process and physical metallurgy. Laboratory experiments simulate both quality control testing and heat treatment. Plant tours.

MECH2166 Fluid Power

Credits: 3
Prerequisites: ENGI1168.
Exclusions: Unavailable to students with credit for MECH274.

The characteristics of basic hydraulic components and the assembly of them into circuits to achieve desired actuation. Includes the study of components and circuit design.

MECH2167 Machine Design I

Credits: 3
Prerequisites: ENGI1164.
Exclusions: Unavailable to students with credit for MECH284.

Expands the principles of mechanics, strength of materials and material science to include the design of machine components.

MECH2168 Heating, Ventilation and Air Conditioning

Credits: 3
Prerequisites: ENGI1168.
Exclusions: Unavailable to students with credit for MECH345.

The major emphasis is on comfort air conditioning - both winter heating and summer cooling. Includes the basic principles of heat transfer, psychometry, load analysis, and equipment selection.

MECH2169 Robotics/CIM

Credits: 3
Prerequisites: MECH2164.
Exclusions: Unavailable to students with credit for MECH365.

Computer-integrated manufacturing: the programming, operation and maintenance of CNC Robotics utilizing a unimation puma robot.

MICROBIOLOGY (MICR)

MICR2101 Introductory Microbiology

Credits: 3
Prerequisites: BIOL1101 or PUBH1101.
Exclusions: Unavailable to students with credit for MICR223 or BIOL223.

Topics include the morphology and physiology of microorganisms, their role in the disease process and methods of control of microorganisms. Course includes lab component.

MICR3101 Medical Microbiology

Credits: 3
Prerequisites: MICR2101 (formerly MICR223 and BIOL223) and a minimum of 3 credits Anatomy & Physiology.
Exclusions: Unavailable to students with credit for MICR333.

This course represents an examination of the myriad of microorganisms which are capable of causing human disease. Bacteria, fungi, viruses and protozoan, helminthic and arthropod parasites will be discussed in the context of their ability to cause disease. Topics will include transmission routes and vectors, portals of entry, spread and replication and host pathogen interactions. Discussions will be primarily classified according to body system involved at the clinical level or by the epidemiological pattern where more relevant.

MICR3103 Environmental Microbiology

Credits: 3
Prerequisites: MICR2101 (formerly MICR223 and BIOL223).
Exclusions: Unavailable to students with credit for MICR335 or BIOL335.

An examination of the ubiquitous nature of microorganisms. The significance of microorganisms in aquatic, terrestrial, and other ecosystems. Examples and problems associated with microbial contamination of food are studied. Beneficial microbial activities such as waste degradation, fermentation and microbial insecticides will be discussed. Laboratory sessions deal with methods of identification, isolation and enumeration of various microorganisms of environmental significance. Course includes lab component.

Mi'kmaq Studies (MIKM)

Mi'kmaq Studies courses are designed to familiarize native and non-native students with the history, language, culture and socioeconomic development of the Mi'kmaq First Nation.

MIKM1100 Introduction to Mi'kmaq Studies

Credits: 6
Exclusions: Unavailable to students with credit for MIKM100.

An overview of the major issues, actors, and events in the political and cultural development of the Mi'kmaq Nation.

MIKM1102 Mi'kmaq/English: Structural Comparisons

Credits: 6
Exclusions: Unavailable to students with credit for MIKM190.

The course deals with structural differences between English and Mi'kmaq and their implications for syntactic and semantic comprehension.

MIKM1145 Introduction to Linguistics Cross-listed with ANTH1101, COMM1107

Credits: 3
Exclusions: Unavailable to students with credit for MIKM107, ANTH107 or COMM107.

An introduction to the scientific study of language. Topics include phonology, morphology, syntax, semantics and the heritage languages of Cape Breton (Mi'kmaq, French, Gaelic and English).

MIKM1161 Introduction to Indigenous Studies

Credits: 3
Exclusions: Unavailable to students with credit for MIKM101.

A multi-disciplinary course deigned to acquaint students with contemporary North, Central, and South American indigenous peoples and issues. Indigenous film, literature and autobiographies are given special focus.

MIKM1167 Indigenous Art of North America

Credits: 3
Exclusions: Unavailable to students with credit for MIKM151 or FINA151.

Survey of native North American musical, visual and verbal art genres, also the origin of regional styles and the place of the artist in native life.

MIKM2106 Indigenous Musics of North America Cross-listed with ANTH2111, ETHM2311

Credits: 3
Exclusions: Unavailable to students with credit for MIKM255, ANTH255, or ETHM255.

This course will introduce students to a range of musical tradition from North America Indigenous communities, including nation specific (especially Mi'kmaq), inter-tribal and popular musics. The course focuses on the significance of music to various Indigenous peoples, examining its role in, for example, ritual, spiritual expression, healing, relationship, and dance. Students will also explore the relationship between music and identity, examining gender roles and nation-specific musical expressions. Students will learn basic music vocabulary in order to analyze and describe the characteristics of the music encountered.

MIKM2113 Conversational Mi'kmaq for Non-Speakers: Level I

Credits: 3
Exclusions: Unavailable to students with credit for MIKM211.

The goal is to assist students in understanding and speaking basic Mi'kmaq. Pronunciation and conversational skills are emphasized.

MIKM2114 Mi'kmaq for Speakers: Introduction to Literacy I

Credits: 3
Exclusions: Unavailable to students with credit for MIKM231.

This course investigates the linguistic and historical bases of Mi'kmaq literacy. Students will learn to read and write Mi'kmaq in various orthographies (hieroglyphs, Rand, Pacifique, and Smith-Francis).

MIKM2120 Mi'kmaq History Cross-listed with HIST2110

Credits: 6
Prerequisites: HIST1100 or 6 credits in Humanities.
Exclusions: Unavailable to students with credit for MIKM212 or HIST204.

A culturally relative chronicle of significant aspects of Mi'kmaq culture from the pre-contact period to the present. Emphasis is placed on innovative methods of historical reconstruction.

MIKM2140 Linguistic Anthropology Cross-listed with ANTH2100

Credits: 6
Prerequisites: 6 credits Introductory Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for MIKM208, ANTH208 or HERT208.

An introduction to socio-cultural aspects of language's forms and functions as expressed in various cultures, including language's interplay with perception, gender and class. Focus will be on collection and documentation of language materials with emphasis on insider/outsider research. Mi'kmaq, Gaelic and Acadian materials are emphasized.

MIKM2213 Conversational Mi'kmaq for Non-Speakers: Level II

Credits: 3
Prerequisites: MIKM2113
Exclusions: Unavailable to students with credit for MIKM213.

The goal is to advance the student's skill in speaking the Mi'kmaq language in a variety of social and cultural situations.

MIKM2215 Mi'kmaq for Speakers: Introduction to Literacy II

Credits: 3
Prerequisites: MIKM2114.
Exclusions: Unavailable to students with credit for MIKM233.

This course builds on the skills of MIKM2114 and provides practise and remediation in the use of the Smith-Francis Mi'kmaq orthography.

MIKM2220 Mi'kmaq Government Cross-listed with POLS2112.

Credits: 6
Exclusions: Unavailable to students with credit for MIKM240 or POLS240.

Examines the history of Mi'kmaq traditional leaderships. Indigenous self-governments in Canada will be used as a framework for discussion.

MIKM2222 Ethnicity, "Race" and Nationalism Cross-listed with AN/S2230

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for MIKM350, AN/S294 or SOCO 350..

This course examines the main approaches to the study of ethnic groups, the social construction of race and nationalist movements. The analysis of selected mass media materials will complement the theoretical part of the course, illustrating the influence of ethnicity, race and nationalism on contemporary culture.

MIKM2410 Mi'kmaq Spirituality

Credits: 6
Exclusions: Unavailable to students with credit for MIKM260.

This course presents an overview of the special way Mi'kmaq people have lived with Nature and God in Atlantic Canada. It attempts to make explicit the wisdom that is implicit in the Mi'kmaq consciousness and in what they have discovered about the meaning of being human. The focus is on both the Algonquian and Catholic consciousness that have

developed an understanding of natural forces, a theory of ecological and human dignity, a spiritual solidarity with God, and a social order which respects sharing, hospitality, love of family and the processes of human development.

MIKM3110 Self and Other: Encounters, Traditions and Transformation

Cross-listed with AN/S3210

Credits: 6
Prerequisites: 12 credits in Anthropology and/or Sociology.
Exclusions: Unavailable to students with credit for MIKM334, AN/S336 or ANTH333.

Colonialism produced an enduring cultural legacy with a range of severe consequences for indigenous cultural reproduction and social organization. Europe also felt the drastic consequences of its own expansionism. How indigenous self-definitions and how traditions have been transformed, revitalized or created anew are the focus of this course, which considers indigenous peoples in a global perspective covering the past 500 years.

MIKM3120 Aboriginal and Treaty Rights in the Canadian Constitution
Cross-listed with HIST3110 and POLS3110

Credits: 6
Prerequisites: MIKM1100 or permission of instructor.
Exclusions: Unavailable to students with credit for MIKM340, HIST312 or POLS340.

The study of Mi'kmaq Aboriginal and treaty rights in Atlantic Canada. The issue of enshrining Aboriginal and treaty rights in S.25 and S.35 of the Constitution Act (1982) will be emphasized.

MIKM3140 Mi'kmaq Linguistics

Credits: 6
Prerequisites: MIKM1145 and MIKM2114/2215
Exclusions: Unavailable to students with credit for MIKM300.

Mi'kmaq Linguistics examines both the word formation (morphology) and the sentence (syntax) patterns common to the Mi'kmaw language. Attention is also paid to how Mi'kmaw words are used and organized within larger discourse such as stories and speeches. Students work on taped stories and speeches which were collected from Mi'kmaw speakers in the 1960's and 1970's.

MIKM3141 Mi'kmaq Lexicology: Theory

Credits: 3
Exclusions: Unavailable to students with credit for MIKM321.

Explores various theoretical approaches to dictionary construction for Algonquian languages such as Mi'kmaq.

MIKM3143 Mi'kmaq Lexicology: Applied

Credits: 3
Prerequisites: MIKM3141 or permission of instructor.
Exclusions: Unavailable to students with credit for MIKM323.

Students will conduct lexicological research on Mi'kmaq. Difficulties of capturing indigenous world views through English translation will be explored.

MIKM3245 Language Contact, Change, Death and Revitalization Cross-listed with AN/S3214

Credits: 3
Exclusions: Unavailable to students with credit for MIKM363, AN/S363 or HERT363.

This course examines how languages change when in contact as well as the very serious process of language death, which is now happening on a global scale. Discussion also focuses on suggested solutions to the rapid loss of linguistic diversity. Languages such as Mi'kmaq and Cape Breton Gaelic are highlighted for analysis.

MIKM3313 Mi'kmaq Nouns and Verbs Cross-listed with ANTH3103

Credits: 3
Exclusions: Unavailable to students with credit for MIKM361 or ANTH361.

This course examines the morphological structure of Mi'kmaq nouns and verbs. The complex internal word grammar of Mi'kmaw is explored, giving insight into the semantic categories of this endangered language.

MIKM3320 Race Relations in North America Cross-listed with HIST3120

Credits: 6
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for MIKM375 or HIST324.

A history of the cultural interaction between whites, native Americans and blacks in North America from the period of exploration and first contact to the present. Seminar.

MIKM3700 Special Topics in Mi'kmaq Studies

Credits: 6
Prerequisites: 6 credits intro Mi'kmaq Studies.

Topics will change according to student and faculty interests.

MIKM3701, 3703 Special Topics in Mi'kmaq Studies

Credits: 3,3
Prerequisites: 6 credits intro Mi'kmaq Studies.

Topics will change according to student and faculty interests.

MIKM4100 Contemporary Mi'kmaq Issues

Credits: 6
Prerequisites: MIKM1100 and 6 credits at the 2000 or 3000 level.
Exclusions: Unavailable to students with credit for MIKM450.

Examines selected issues in contemporary Mi'kmaq society. The focus is on a critical analysis of the issues.

MSɬT

All courses include three hours of lecture and three hours of laboratories per week. MSɬT 101/103, 201/203, 301/303, and 401/403 are compulsory within the Bachelor of Science Community Studies (BScCS) four-year degree concentration in Toqwa'tu'kl Kjijitaqnn / Integrative Science.

MSɬT1101/1103 Sense of Place, Emergence, and Participation

Credits: 3,3
Prerequisites: none, but intended to be taken concurrently with MSɬT2101/2103.

Exclusions: Unavailable to students with credit for MSɬT101/103.

Mi'kmaw world view: This course will provide an opportunity for students to appreciate Creation and attain skills to restore the traditional thought of co-existence, recognizing that balance and harmony are embodied in First Nation's traditions, and that First Nation's perspectives on the environment reflect consciousness and therefore create attitudes. The Mi'kmaq language will be discussed, along with the spiritual ecology, mythical and environmental foundations of indigenous education (sensu Cajete).

Western science: Discussion will focus on the brain basis of human consciousness, how "things" in the external environment are detected, the importance of pattern recognition by the brain, the occurrence of patterns in Nature, and the scientific pursuit to understand Nature's patterns. Insights into human consciousness as provided by the biophilia hypothesis, multiple intelligences theory and integral psychology will be mentioned.

MSɬT2101/2103 Ways of Knowing

Credits: 3,3
Prerequisites: None, but intended to be taken concurrently with MSɬT1101/1103.
Exclusions: Unavailable to students with credit for MSɬT201/203.

Mi'kmaw world view: This course will provide an opportunity for students to appreciate that Spiritual connectedness is deeply embedded in First Nation's thought and that the Mi'kmaw world view is one pathway towards this understanding. Traditional ecological knowledge will be discussed, along with the visionary, artistic, affective and communal foundations of indigenous education (sensu Cajete).
Western science: The importance of asking questions in the scientific pursuit to understand Nature will be discussed, along with the major questions asked by modern cosmology, physics, chemistry, geology and biology. Emphasis will be placed on the connectedness found within their answers, using a "parts and wholes" approach to understanding patterns in nature and in science.

MSɬT3101/3103 Cycles and Holism

Credits: 3,3
Prerequisites: MSɬT1101/1103 and MSɬT 2101/2103, or permission of instructor. BIOL1101 and one of BIOL1601 or BIOL2501 recommended. Exclusions: Unavailable to students with credit for MSɬT301/303.

Mi'kmaw world view: This course will explore First Nation's views on the cycles of life and life forms, with emphasis toward education as the tool to investigate and respect the cosmological forces that influence thought. Varieties of energy and energy forces in natural cycles and patterns will be discussed.

Western science: Cycles, rhythms and transformations in nature will be discussed using a complex systems science approach (parts and wholes and evolutionary change). Examples will be drawn from various natural phenomena in internal and/or external environments, with special attention given to issues in Atlantic Canada.

MSɬT3105 Plant Ecology Cross-listed with BIOL3541

Credits: 3
Prerequisites: BIOL2501.
Exclusions: Unavailable to students with credit for MSɬT351.

Western science: The study of Acadian forest systems will continue with an in-depth view of plant assemblages and the relationship to habitat, process, structure and function. Studies will be extended to the non-vascular plants. Relationships and differences between major plant divisions and plant-animal interactions will be considered. Emphasis will be placed on acquiring this knowledge in the field. Normally offered every other year.

MSIT4101/4103 Wholeness

Credits: 3,3
Prerequisites: MSIT1101/1103, MSIT2101/2103 and MSIT3101/3103, or permission of instructor.
Exclusions: Unavailable to students with credit for MSIT401/403.

Mi'kmaw world view: This course will offer the belief instilled in First Nation's thought that everything comes from a single whole and that there is consistent change or flux. There are two kinds of changes (the coming together of things and the coming apart of things); both are necessary and all things are interrelated with everything connected. The four human aspects (mental, physical, emotional and spiritual) must be in balance and harmony for one to be whole and therefore healthy; this process is also evident in all of Creation.

Western science: The concepts of wholeness and change will be discussed using the topics of health, healing and evolution at the organismal, population and ecosystem levels.

MUSIC (MUSI)

MUSI1100 Introduction to Music Theory

Credits: 6
Exclusions: Unavailable to students with credit for MUSI120.

A study of the fundamental theoretical aspects of music.

MUSI1101 Experiencing Music

Credits: 3
Exclusions: Unavailable to students with credit for MUSI125, ETHM125 or FINA125.

This course introduces musical fundamentals such as pitch, rhythm, timbre, texture and other elements. By using a wide cross-section of world musics as exemplars, this course helps students to develop listening and music analysis skills. Students will be introduced to musics both familiar and unfamiliar, providing a culturally diverse musical environment in which to build their vocabularies for describing musical sound and performance. Through hands-on in-class activities and individual analysis assignments, students receive grounding in the basics of music theory and practice as it is relevant to musical traditions in many parts of the world.

MUSI1103 Introduction to Music and Culture, 1600-1800

Credits: 3
Exclusions: Unavailable to students with credit for FINA102.

The periods to be studied will be late Renaissance, Baroque, Rococo, and Classical.

MUSI1104 Introduction to Music and Culture: The Romantic Period, 1790-1914

Credits:3
Exclusions: Unavailable to students with credit for FINA105.

Changing musical styles that developed in Western Europe between 1790 and 1914.

MUSI1505 History and Literature of Music I

Credits: 3
Exclusions: Unavailable to students with credit for MUSI115, ETHM115 or FINA115.
Satisfies the Group 4, BA core requirement.

This course provides basic knowledge and understanding of music in culture, with emphasis on listening skills and repertoire. Material will include the fundamentals of music and a survey of the Medieval, Renaissance and Baroque periods in European music (ca. 400-1750 AD). Significant musical features, developments, composers, genres, compositions, and ensembles in each of the three eras studied will be examined. In addition, students will consider how broader social, religious, scientific, political and economic contexts affected, and were affected by, music. No prior musical knowledge is required.

MUSI1506 History and Literature of Music II

Credits: 3
Exclusions: Unavailable to students with credit for MUSI116, ETHM116 or FINA116.

This course provides basic knowledge and understanding of music in culture, with emphasis on listening skills and repertoire. Material will include the fundamentals of music and a survey of the Classical, Romantic and Modern periods in European music (ca. 1750 to the present). Significant musical features, developments, composers, genres, compositions, and ensembles in each of the three eras studied will be examined. In addition, students will consider how broader social, religious, scientific, political, and economic contexts affected, and were affected by, music. No prior musical knowledge is required.

MUSI2101 Music & Culture

Credits: 3
Exclusions: Unavailable to students with credit for MUSI201, ETHM201 or FINA201.

An introduction to the discipline of ethnomusicology, this course focuses on the issues confronting those who study music across cultures. Through the course, students discover the ways in which sounds, settings and significances interlock in diverse musical cultures. Through case studies and the major course assignment, students discover how fieldwork is done, including the process of participant observation, ethnographic interviewing, thick description and research ethics. In the process, broader issues in ethnomusicology are studied, such as movement across distances (e.g., migration), commercial and economic issues (e.g., recordings, tourism), ritual (e.g., religion, life cycle ceremonies) and politics (e.g., nationalism, protest). Each of these issues is discussed theoretically and then examined in several specific (and different) case studies involving music cultures from around the world.

MUSI2113 Musics of the World

Credits: 3
Prerequisites: Any 6 credits in ETHM *except* performance courses.
Exclusions: Unavailable to students with credit for MUSI205, MUSI305, ETHM205, or ETHM305.

This course provides in-depth study of a small number of non-Western musics, each studied during its own module. Music offers, in many ways, a window on society, giving us the opportunity to see how music is defined, how it is evaluated, how it is made and performed and its role within a given community. Music can be studied as a reflection of society, mirroring social and political structures, gender relations, cultural values, religious beliefs and other aspects. However, music is also an active force in the creation of society, as when it is used for protest purposes or to call upon a deity to change the

community's circumstances. Students will discover how music is more than entertainment in many cultures and is instead a form of human expression that is a meaningful aspect of daily life.

MUSI2201 Introduction to Gaelic Song **Cross-listed with FOLK2111**

Credits: 3
Exclusions: Unavailable to students with credit for ETHM207, CELT207, FINA207 or FOLK207.
Studies the history of the Celtic music traditions with special emphasis on Scottish and Cape Breton musical traditions.

MUSI2203 Introduction to Instrumental Celtic Music **Cross-listed with FOLK2113**

Credits: 3
Exclusions: Unavailable to students with credit for ETHM209, CELT209, FINA209 or FOLK209.

Studies the history of the Celtic music traditions with special emphasis on Scottish and Cape Breton musical traditions.

MUSI2214 Celtic Dance **Cross-listed with FOLK2261**

Credits: 3
Exclusions: Unavailable to students with credit for ETHM213

Students will learn about social and solo dance forms from Scotland, Ireland and the new world diaspora. They will examine socio-cultural dance contexts (such as ceilidhs and competitions) and grapple with such issues as the impact of tourism on dance, dance as spectacle, invented dance traditions, changing dance traditions and contexts, intercultural influences, expressing identity through dance, and dance music. No dance background is required.

MUSI2221 Early Canadian Celtic Music **Cross-listed with FOLK2107**

Credits: 3
Exclusions: Unavailable to students with credit for ETHM241, CELT241, FINA241, FOLK241 or HERT241.

This course is designed to introduce students to Celtic music in Canada prior to the 1970's from historical, cultural and musicological perspectives. Students will be introduced to musics from different Celtic cultures, a variety of Canadian regions, a range of musical styles and a number of significant musicians.

MUSI2223 Contemporary Canadian Celtic Music **Cross-listed with FOLK2108**

Credits: 3
Exclusions: Unavailable to students with credit for ETHM243, CELT243, FINA243, FOLK243, or HERT243.

This course is designed to introduce students to Celtic music in Canada from the 1970’s onward, using historical, cultural and musicological perspectives. Students will be introduced to music from different Celtic cultures, a variety of Canadian regions, a range of musical styles and a number of significant musicians.

MUSI2251 Social History of Celtic Music & Dance **Cross-listed with FOLK2105**

Credits: 3
Exclusions: Unavailable to students with credit for ETHM231, CELT231, FINA231, FOLK231 or HERT231.

This course looks at the history and social context of Celtic music and dance. Themes include the influence of politics, religion, commercialism and gender, as well as processes such as modernization, popularization, codification and revival. Also covered are key individuals (musicians, composers and collectors) and important societies and institutions. The

focus is mainly on the music and dance of Ireland, Scotland and Cape Breton Island, with some exploration of other Celtic regions. Topics are examined from a cross-cultural perspective. No prior musical knowledge is required.

MUSI2301 Atlantic Canadian Folk Music **Cross-listed with FOLK2403**

Credits: 3
Exclusions: Unavailable to students with credit for ETHM203 or FOLK203.

This course examines a variety of vernacular musical traditions and will consider aspects such as performers, audiences, aesthetics, functions, history, venues, transmission and collection. The definition of folk music will be debated. Folk music collections will also be studied and questioned.

MUSI2311 Indigenous Musics of North America **Cross-listed with ANTH2111, MIKM2106**

Credits: 3
Exclusions: Unavailable to students with credit for ETHM255, ANTH255 or MIKM255.

This course will introduce students to a range of musical tradition from North America Indigenous communities, including nation specific (especially Mi'kmaq), inter-tribal and popular musics. The course focuses on the significance of music to various Indigenous peoples, examining its role in, for example, ritual, spiritual expression, healing, relationships and dance. Students will also explore the relationship between music and identity, examining gender roles and nation-specific musical expressions. Students will learn basic music vocabulary in order to analyze and describe the characteristics of the music encountered.

MUSI2401 Popular Music and Culture 1890 to 1950 **Cross-listed with FOLK2501**

Credits: 3
Exclusions: Unavailable to students with credit for ETHM2401, ETHM227, ETHM121, FINA227, FINA121, FOLK2405, FOLK227, FOLK121, MUSI2405, MUSI227 or MUSI121.

This course traces the development of popular song in North America from its earliest forms, up to the development of rock and roll in the 1950's. Through topics such as parlour song, minstrelsy, jazz, country, swing and blues, the social, economic and technological forces that shaped popular song are explored in depth. The interrelationship between North American popular music and the diverse immigrant communities that helped create it is analyzed.

MUSI2403 Popular Music and Culture, 1950 - Present **Cross-listed with FOLK2503**

Credits: 3
Prerequisites: ETHM1101 or MUSI1114
Exclusions: Unavailable to students with credit for ETHM229, FINA229, FOLK229 or MUSI229.

A continuation of Popular Music and Culture I, this course surveys the development of British and North American popular song between the 1960's and the 2000's. In addition to profiling the key performers, genres, businesses and texts from the past 40 years, students are introduced to the many issues that make popular music so compelling: its role in politics, social identity, economic shifts and the technological changes. The sound and history of the music are connected to the prevailing social and cultural climate of each decade.

MUSI2405 Popular Music and Culture **Cross-listed with FOLK2405**

Credits: 3
Exclusions: Unavailable to students with credit for ETHM121, FINA121, FOLK121, or MUSI121.

COURSE DESCRIPTIONS

This course examines the development of North American and British popular music by surveying key historical periods and genres which gave rise to define the popular idiom. There will be an emphasis on the links between popular music and the prevailing social conditions of each period.

MUSI2501 Popular Music and Culture 1890 to 1950 Cross-listed with FOLK2501.

Credits: 3
Exclusions: Unavailable to students with credit for MUSI2405, MUSI227, MUSI121, ETHM2401, ETHM227, ETHM121, FINA227, FINA121, FOLK2405, FOLK227, or FOLK121.

This course traces the development of popular song in North America from its earliest forms up to the development of rock and roll in the 1950's. Through topics such as parlour song, minstrelsy, jazz, country, swing and blues, the social, economic and technological forces that shaped popular song are explored in depth. The interrelationship between North American popular music and the diverse immigrant communities that helped create it is analyzed.

MUSI2503 Popular Music and Culture, 1950 - Present

Credits: 3
Prerequisites: MUSI1114 or ETHM1101
Exclusions: Unavailable to students with credit for MUSI229, ETHM229, FINA229 or FOLK229.

A continuation of Popular Music and Culture I, this course surveys the development of British and North American popular song between the 1960's and the 2000's. In addition to profiling the key performers, genres, businesses and texts from the past 40 years, students are introduced to the many issues that make popular music so compelling: its role in politics, social identity, economic shifts and the technological changes. The sound and history of the music are connected to the prevailing social and cultural climate of each decade.

MUSI2911 Cape Breton Fiddle Music

Credits: 3
Exclusions: Unavailable to students with credit for MUSI251, CELT251, ETHM251, FINA251 or MUSI251.

This performance course will emphasize instruction in the Cape Breton fiddle tradition. Basic performance competency is required and will be assessed during the first class.

MUSI2913 Fiddle Music for Dancing

Credits: 3
Exclusions: Unavailable to students with credit for MUSI253, CELT253, ETHM253, FINA253 or MUSI253.

This course will emphasize instructions in the use of Cape Breton fiddle music performance in the dance tradition. Piano accompaniment will be a feature of this course.

MUSI2917 Cape Breton Fiddle Composers

Credits: 3
Prerequisites: Students must already be able to play fiddle; assessment by instructors required for enrolement.
Note: This course will be offered every second year.

This course will introduce fiddlers to major cape Breton fiddle composer (e.g., Dan R MacDonald, Donald Angus Beaton, Dan Hugh MacEachern) and their repertoire. Students will learn to identify stylistics and compositional techniques associated with particular composers as well as features that make tunes more appropriate for listening or dancing.

MUSI2915 Evolution of the Cape Breton Fiddle Style

Credits: 3
Prerequisites: Students must already be able to play fiddle; assessment by instructors required for enrolement.
Note: This course will be offered every second year.

This course will introduce fiddlers to the development of the Cape Breton fiddle style by studying significant Cape Breton fiddlers, cultural influences (e.g., Irish, Acadian, America), the piping influence, and/or the impact of the Gaelic language on musical trends.

MUSI3301 Revivals & Survivals: Studying Folk Song & Traditional Music Cross-listed with FOLK3301

Credits: 3
Prerequisites: 6 credits of ETHM/MUSI/FOLK (except performance courses)

CBU's programs in Folklore and Ethnomusicology specialize in folk and traditional music. Drawing on literature from both disciplines, as well as others, this course explores the study of this music. What exactly *is* folk music? Who defines it, on what basis, and with what effects? Who creates it and why? How does it travel through space and time, and how does it change as it does so? What is the value of this music and why should it be studied?

MUSI3511 Popular Musics of the World Cross-listed with FOLK3511

Credits: 3
Prerequisites: Any 6 credits in ETHM *except* performance courses.
Exclusions: Unavailable to students with credit for MUSI321, ETHM321 or FOLK321.

This course focuses on popular musics from outside the North American and British mainstream. Students will grapple with various issues relating to global popular musics, including how they circulate the world and what happens as a result of transcultural contact, how "world music" has been constructed and consumed in the West, issues of intellectual property and ownership, language choice and the role and modes of mass media.

MUSI3601 Cultural Tourism: Music, Heritage & The Exotic Cross-listed with FOLK3601

Credits: 3
Prerequisites: Any 6 credits ETHM/MUSI/FOLK *except* performance courses.

Cultural tourism is an increasingly popular type of tourism globally. But what kind of culture is privileged and what kind of culture is avoided in tourism contexts? How does culture get staged? Do tourists experience "kitsch" or "authentic" culture? How is authenticity defined? How does the tourist context affect traditional cultural expressions and beliefs within a community? This course analyzes the "culture" in cultural tourism with an emphasis on the role of music in cultural tourism.

MUSI3603 Culture, Folk & Music Festivals: Identity on Display Cross-listed with FOLK3603

Credits: 3
Prerequisites: 6 credits of ETHM/MUSI/FOLK (except performance courses)
Note: This course will be offered every second year.

Festivals are hugely popular around the world. They provide the means for communities to showcase that which makes them unique and identifiable, including their music, food, dress, dance, and artwork. Festivals provide the opportunity to celebrate culture and identity for local residents while providing a cultural enterypoint for tourists. In this course, students consider festivals from a variety of perspectives, such as ritual, the carnivalesque, revivals, nationalism, identity, gender, and sexuality.

MUSI3613 Music and Nationalism Cross-listed with POLS3153-4

Credits: 3
Prerequisites:-Any 6 credits of ETHM/MUSI course (except performance); and/or a Political Science course.
Exclusions: Unavailable to students with credit for ETHM369, FINA369 or POLS369.

This course examines how music can be a potent tool for both building nations and critiquing them. Music can express national identities, narrate national myths, and mark national borders, but it can also critique, deconstruct, and transgress. While many find it easy to accept that music reflects social beliefs and values, in this course we explore how music can be actively used to shape national ideas, principles and standards.

MUSI3911 Fiddle Performance

Credits: 1

This course label encompasses a range of fiddle styles; a particular style will be offered depending on the instructor and expertise available (e.g., Scottish, Irish, Acadian, Old-Time) and may vary from year to year. The course provides group instruction in traditional music performance for students who already have intermediate performing abilities. A student may take more than one such course for credit so long as a different fiddle style is represented by each credit.

Basic performance competency is required and will be assessed during the first class.

NOTE: This course is worth 1 credit ONLY. To count towards a degree, a student will need to take at least two other 1-credit courses.

MUSI3921 Piano Performance

Credits: 1

This course label encompasses a range of piano styles; a particular style will be offered depending on the instructor and expertise available (e.g., Scottish, Acadian, Old-Time) and may vary from year to year. The course provides group instruction in traditional music performance for students who already have intermediate performing abilities. A student may take more than one such course for credit so long as a different piano style is represented by each credit.

Basic performance competency is required and will be assessed during the first class.

NOTE: This course is worth 1 credit ONLY. To count towards a degree, a student will need to take at least two other 1-credit courses.

MUSI3931 Instrumental Performance

Credits: 1

This course label encompasses a range of styles relevant to an instrument not represented by other performance course codes; a particular style and instrument will be offered depending on the instructor and expertise available (e.g., Irish flute/whistle, Celtic accordion, Mi'kmaq powwow music) and may vary from year to year. The course provides group instruction in traditional music performance for students who already have intermediate performing abilities. A student may take more than one such course for credit so long as a different instrument and/or style is represented by each credit.

Basic performance competency is required and will be assessed during the first class.

NOTE: This course is worth 1 credit ONLY. To count towards a degree, a student will need to take at least two other 1-credit courses.

MUSI3941 Dance Performance

Credits: 1

This course label encompasses a range of dance styles; a particular style will be offered depending on the instructor and expertise available (e.g., Cape Breton step dance, Ottawa Valley step dance, Highland dancing) and may vary from year to year. The course provides group instruction in traditional dance performance. A student may take more than one such course for credit so long as a different dance style is represented by each credit.

NOTE: This course is worth 1 credit ONLY. To count towards a degree, a student will need to take at least two other 1-credit courses.

MUSI3951 Vocal Performance

Credits: 1

This course label encompasses a range of vocal styles; a particular style will be offered depending on the instructor and expertise available (e.g., choir, Gaelic song, Acadian song, Mi'kmaq song) and may vary from year to year. The course provides group instruction in song performance. A student may take more than one such course for credit so long as a different type of song or vocal style is represented by each credit.

NOTE: This course is worth 1 credit ONLY. To count towards a degree, a student will need to take at least two other 1-credit courses.

NATURAL SCIENCE (NASC)

NASC1120 Natural Science

Credits: 6
Exclusions: Unavailable to students with credit for NASC120.
Satisfies the BA Group 5 core requirement and may also be used in a Philosophy concentration or major.

An introduction to the history, methodology, and moral implications of science and technology.

NURSING (NURS)

NURS1101 Conceptual Model for Nursing

Credits: 3
Exclusions: Unavailable to students with credit for NURS105.

Focuses on nursing as a profession and its historical evolution to the present. Theoretical and philosophical bases of nursing are explored, with a focus on Orem's self-care theory. The role of the professional nurse is explored. Factors that influence contemporary nursing, such as legal and ethical issues, health care reform and changing health care priorities are discussed. This course introduces the philosophy and framework for nursing.

NURS1103 Health Promotion and Learning

Credits: 3
Prerequisites: NURS1101 and NURS1104.
Exclusions: Unavailable to students with credit for NURS115.

Explores the concepts of health and wellness, health promotion, and learning within a framework of self-care theory. This course covers lifestyle issues and health behaviour within the context of the wider socio-cultural, economic, political and ecological issues which determine health. This course provides opportunities for students to reflect upon theories of health/wellness behaviour and its determinants and consequences; to develop interviewing and health assessment skills with a selected client; to develop skills in facilitating client learning about health and helping clients grow toward more positive wellness.

NURS1104 Introduction to Nursing

Credits: 3
Prerequisite for nursing practice component: NURS1101.
Exclusions: Unavailable to students with credit for NURS125.

Provides a foundation for nursing practice with an introduction to the theory and practice of nursing skills and techniques. The nursing process and Orem's theory of self-care are used as organizing frameworks for the course. The focus is on selected skills appropriate to meet the needs of individuals with self- care deficits. Classroom instruction and supervised nursing practice are integral components of this course. Second-year courses pursue a common theme: community health with a focus on the needs of individuals, families and communities.

NURS2101 Community Health Nursing I: Introduction to Community

Credits: 3
Prerequisites: All First Year Nursing courses with a passing grade/average of 60%.
Exclusions: Unavailable to students with credit for NURS207.

This course provides an introduction to community and the two distinct branches of community health nursing: home health nursing and public health nursing. Major themes explored are: community assessment, working with older adults, group process, vulnerable groups, mental health and vulnerability, community health promotion and community health education. Community nursing practice assignments are an integral part of this course.

NURS2103 Family Nursing in the Community

Credits: 3
Exclusions: Unavailable to students with credit for NURS211.

This course explores the role of the nurse in facilitating the health of families within communities. Major themes in this course include family theories, family assessment, family developmental stages, local and global trends and issues for childbearing and childrearing families and growth and development of the child within the context of family. Community resources for parents and children will be explored. Nursing practice assignments are an integral part of this course.

NURS2104 Nursing of Adults I

Credits: 3
Exclusions: Unavailable to students with credit for NURS237.

This course provides an introduction to the theory of nursing care of adults in the acute care hospital setting in relation to homeostasis and the pathophysiological changes of the body in response to problems pertaining to fluid and electrolyte imbalance, respiratory and cardiovascular function and Diabetes. Supervised lab practice is an integral part of this course.

NURS2105 Pharmacology in Nursing

Credits: 3
Exclusions: Unavailable to students with credit for NURS255.

This course provides an overview of the basic science of drugs. The properties of major drug families will be reviewed via a prototype and an emphasis on basic pharmacological principles. The focus throughout this course will be on the application of knowledge to client care and client education. The acquisition of skills to understand medication prescriptions and accurately calculate drug dosages is an expected outcome. A passing grade in this course is a prerequisite for NURS2990.

NURS2106 Comprehensive Health Assessment

Credits: 3
Exclusions: Unavailable to students with credit for NURS275.

This theory and practice course focuses on a systematic assessment of a client's health status and the normal functions and findings related to various body systems. The emphasis of practice is on developing the assessment skills necessary to implement a comprehensive examination of body systems for the purpose of identifying self-care requisites. A practicum is provided in a lab setting.

Third-year courses focus on the nursing needs of the family and are organized around the developmental stages of the life cycle and various situational crises which a family may experience.

NURS2990 Nursing Practice I

Credits: 6
Prerequisites: Successful completion of all level one and two year nursing courses to date and BIOL3200.
Exclusions: Unavailable to students with credit for NURS250.

An intersession course (May - June) with learning experience in selected nursing practice settings in the community

NURS3100 Legal and Ethical Issues in Nursing Care Cross-listed with PHIL3130

Credits: 6
Prerequisites: All first and second year Nursing courses with a passing grade/avg. of 60%.Exclusions: Unavailable to students with credit for NURS330 or PHIL330. Available to non-Nursing students only with the permission of the instructor.

Examines the moral and ethical implications of various practices in the field of health care as they affect human life and the basic dignity of the person. Also treats the moral, ethical, legal, and theological issues raised by recent developments in the life sciences.

NURS3101 Nursing of Adults II

Credits: 3
Prerequisites: All first and second year Nursing courses with a passing grade/avg. of 60%.
Exclusions: Unavailable to students with credit for NURS307.

Nursing 3101 focuses on many health challenges encountered by adults resulting from problems originating in the hematological, peripheral vascular systems, gastrointestinal, hepato-biliary disorders, neurological disorders, gynecological disorders, renal tract disorders and renal failure, acute and chronic. Primary health care focusing on the needs of the population particularly related to health promotion and illness prevention will be explored.

NURS3102 Nursing Research Methods

Credits: 6
Prerequisites: All first and second year Nursing courses with a passing grade/avg. of 60%.
Exclusions: Unavailable to students with credit for NURS310.

The course is designed to introduce students to the research process and to quantitative and qualitative research methods related to critical appraisal of nursing and health care literature. Emphasis is placed on the student's potential role as a generator of researchable questions, as a collaborator in research related to nursing practice and as an intelligent consumer of research. Concepts of research design, implementation, analysis and interpretation are studied in the context of the steps of the research process. The course requires students to become immersed in the language and culture of research and to understand the broader context within which nursing research is conducted. For students in nursing and nursing with advanced major.

NURS3103 Nursing of Children

Credits: 3
Prerequisites: All first and second year Nursing courses with a passing grade/avg. of 60%.
Exclusions: Unavailable to students with credit for NURS315.

This course is based on the philosophy and principles of family-centred care, promotion of self-care for childbearing families, promoting family-centred social changes and family empowerment. Students will explore how children and families cope with illness in childhood and adolescence and what nursing interventions children and families find helpful. A wide range of pediatric illness conditions is presented. This course involves three hours of classroom time per week for 12 weeks and 12 hours of nursing practice per week for six weeks. The nursing practice has both an illness and wellness focus and utilizes both acute care and community settings.

NURS3104 Mental Health Nursing

Credits: 3
Prerequisites: All first and second year Nursing courses with a passing grade/avg. of 60%.
Exclusions: Unavailable to students with credit for NURS345.

This course provides students with a comprehensive approach to mental health aspects of nursing practice. Topics include stigma and mental illness, anxiety, depression, psychosis, mania, mental health difficulties associated with food and eating, traumatic stress, substance and gambling dependency and dementia. Each issue will be considered from a socio-cultural, political, economic, historical and biophysical perspective. Students will explore principles of social justice as well as ethical and legal aspects of mental health care. The class is taught in a weekly three-hour workshop format which includes a broad variety of learning approaches. Nursing practice consists of 11 hours per week of mental health practice for a six week period during the term.

NURS3105 Perinatal Nursing

Credits: 3
Prerequisites: All first and second year Nursing courses with a passing grade/avg. of 60%.
Exclusions: Unavailable to students with credit for NURS355.

This course is based on the philosophy and principles of family-centred health care, promotion of self-care for childbearing families, and promoting family-centred social changes and family empowerment. Students explore philosophical, cultural, physiological, psychological, and spiritual dimensions of childbirth, postpartum adaptation, lactation, and infant care. The focus of the course is on understanding normal, healthy perinatal and neonatal experience, with an introduction to understanding a range of perinatal and neonatal complications. This course involves six hours per week of classroom instruction and 12 hours of nursing practice per week for six weeks.

NURS4101 Community Health Nursing II – Population Focused Approach

Credits: 3
Prerequisites: All first, second and third year Nursing courses with a passing grade/average of 60%.

Exclusions: Unavailable to students with credit for NURS407.

This course explores population focused community health nursing practice. Major themes include: population health promotion, population focused nursing practice, public health nursing, populations with communicable and chronic diseases, epidemiology, immunizations, environmental health and disaster management. This course involves three hours per week of classroom instruction and 12 hours of nursing practice per week for six weeks.

NURS4103 Nursing of Adults III

Credits: 3
Prerequisites: All first, second and third ear nursing courses, each with a minimum average of 60%.

Exclusions: Unavailable to students with credit for NURS435.

Designed to provide the senior nursing student with opportunities to render comprehensive nursing care and explore concepts related to adults and older adults who are experiencing or at risk for, complex health problems such as palliative and end of life care, cancer care, musculoskeletal disorders and sensorineural disorders. Students participate in a variety of nursing practice experiences. This course involves three hours per week of classroom instruction for the term and 10-12 hours of nursing practice per week for six weeks.

NURS4104 Nursing of Adults IV

Credits: 3
Prerequisites: All first, second and third year nursing courses, each with a minimum average of 60%.
Exclusions: Unavailable to students with credit for NURS445.

A nursing practice and theoretical course designed to provide the senior nursing student with opportunities to render comprehensive nursing care and explore concepts related to adults who are experiencing, or at risk for, complex health problems associated with endocrine disorders, chest and lower respiratory disorders, integumentary disorder burns and multisystem failure. Students participate in a variety of nursing practice experiences in several different settings. This course consists of six hours per week of classroom instruction for 6 weeks and 10-12 hours of nursing practice per week for six weeks.

NURS4105 Trends in Health Care

Credits: 3
Exclusions: Unavailable to students with credit for NURS491.

A senior nursing course which examines the evolution of health care as an organized service, with emphasis on the development of and challenges to, nursing education and practice. While its specific focus is the Canadian health care system, the course provides exposure to the international scene, particularly health conditions and needs in the developing world. The course is designed to facilitate independent inquiry. It involves the student in consultations and a search of relevant literature.

NURS4106 Leadership and Research in Nursing

Credits: 3
Exclusions: Unavailable to students with credit for NURS493.

Examines nursing theories, management models and leadership concepts and theories. Qualitative research methodologies are reviewed, with emphasis on their usefulness in exploring specific nursing problems. The focus throughout the course is the importance of the scientific foundations of nursing as a research-based practice.

NURS4801 Directed Study and Practice

Credits: 3
Prerequisites: Permission of the Nursing Program Coordinator.
Exclusions: Unavailable to students with credit for NURS499.

This course requires application and testing of nursing knowledge as well as knowledge from related disciplines in a nursing practice setting of the student's choice (within the limits of available resources). The student selects a faculty advisor, as well as agency staff for consultation and supervision as appropriate.

NURS4990 Nursing Practicum II

Credits: 6
Prerequisite: Successful completion of all fourth year nursing courses.
Exclusions: Unavailable to students with credit for NURS450.

The nursing practicum assists the nursing student's transition to the graduate nurse's role. The practicum consists of two preceptored nursing practice experiences (408 hours) in practice settings of the student's choice based on their learning needs and interest. In addition, the nursing practicum will provide the student with an understanding the scope and roles of registered nursing. It is expected that during the nursing practicum experiences, student will demonstrate leadership, collaboration, advocacy and critical thinking with clients, members of health care teams and peers.

NUTRITION (NUTR)

NUTR1101 Community Nutrition

Credits: 3
Exclusions: Unavailable to students with credit for NUTR101.

This course gives a broad overview of nutrition with a special emphasis placed on Cape Breton. Topics include the history, psychology, economics, sociology, elementary chemistry and elementary biology of nutrition. Includes discussion of ways good nutrition can be obtained economically.

NUTR2101 Introduction to Nutritional Assessment of Disease - Theory

Credits: 3
Prerequisites: 3 credits in a university science (Biology, Chemistry, Geology, Nutrition, Psychology, Physics or Statistics) or permission of instructor.
Exclusions: Unavailable to students with credit for NUTR205.

Diseases discussed are of interest to the Aboriginal and broader Cape Breton community, as such diseases impact heavily upon those communities. Topics are types I and II Diabetes, heart disease (atherosclerosis), blood pressure, stroke and kidney disease. Each of these topics is dealt with in terms of pathology and elementary nutritional biochemistry, socioeconomic factors leading to the diseases, and nutritional and related socioeconomic approaches to be taken to avoid and treat these diseases, including dietary approaches available to those at risk and identification of Aboriginal and other Cape Bretoners at risk of these diseases.

NUTR2103 Introduction to Nutritional Assessment of Disease - Applications

Credits: 3
Prerequisites: NUTR2101 or permission of instructor.
Exclusions: Unavailable to students with credit for NUTR207.

Various blood and other body parameters relative to the diseases covered in NUTR 2101 will be measured and the impact of nutrition on some of those parameters assessed. A field survey will be designed, implemented and analysed by students to assess the socioeconomic and nutritional factors that govern the relative degree of risk of these diseases in a chosen Cape Breton subpopulation. At the end of the course students will be able to understand the facets and importance of:

a) Stated laboratory outcomes,
b) Various biochemical measures,
c) Experimental design and conduct and
d) Data analyses and recommendations to be made to overcome risk of these diseases in Cape Breton.
Course includes lab component.

NUTR2104 Introduction to Nutrition

Credits: 3
Prerequisites: BIOL1101 and (CHEM1101 and 1103 or CHEM1106 and 1107) or permission of instructor.
Exclusions: Unavailable to students with credit for NUTR261.

This course conveys the fundamentals of the science of nutrition, emphasizing nutrients, their functions and dietary sources. It includes how the body handles the nutrients. Students will become familiar with recommended nutrient intakes as well as the interrelatedness of economics, culture, health and nutrition.

NUTR2105 Applied Nutrition

Credits: 3
Prerequisites: NUTR2104 or permission of instructor.
Exclusions: Unavailable to students with credit for NUTR263.

This course emphasizes nutrition's role in health promotion and prevention and treatment of disease. Topics include nutritional health and food consumption trends in Canada, nutritional assessment, life-cycle nutrition, diet and chronic disease and nutritional intervention in various diseases. Alternate feeding methods and post-operative nutrition will be discussed.

NUTR2106 Principles of Nutrition in Human Metabolism

Credits: 3
Prerequisites: NUTR2104 or permission of instructor.
Exclusions: Unavailable to students with credit for NUTR265.

The topics (normal human metabolism in relation to life cycle, sports nutrition, consumer concerns about foods, hunger and global food issues) are of interest, in part, to students who plan to enter their third year of the Honours BSc in Human Nutrition program at St. Francis Xavier University. Other students interested in the health sciences would find the course to be very useful in developing their understanding of nutritional biochemistry. Offered every other year: Fall 2011 and Fall 2013.

NUTR2107 Introduction to Sport Nutrition **Cross-listed with SPKH2107**

Credits: 3
Prerequisites: SPHK100/1100.

The six nutrient classes and their basic metabolism in healthy individuals are reviewed. These six nutrient classes and their metabolism are then explained in terms of training, competition and post-competition nutrition for maximising

performance in specific sports covering the aerobic, anaerobic and interval spectrum (e.g. marathon running, sprinting, basketball, soccer, hockey). The interaction of diet and genetics in sports will be discussed. Finally, sources of information on sport nutrition will be noted and assessed for their reliability.

NUTR3701 Current Topics in Human Nutrition

Credits: 3
Prerequisites: NUTR2104 or permission of instructor.
Exclusions: Unavailable to students with credit for NUTR361.

This course deals with current issues in human nutrition including osteoporosis, atherosclerosis, diabetes, cancer, arthritis, atopic dermatitis and physical activity. Other topics discussed are dietary reference intakes, genetically modified foods, world food supply, food labelling debates, the use of the Internet and successes and failures in current nutrition research. Normally offered every other year.

PETROLEUM ENGINEERING TECHNOLOGY (PETR)

PETR1131 Petroleum Production and Processing

Credits: 3
Exclusions: Unavailable to students with credit for PETR112.

Fundamental concepts of petroleum development from discovery techniques, production and processing, to transportation and marketing. Focus on east coast offshore oil and gas exploration and production.

PETR1161 Drilling Engineering

Credits: 3
Exclusions: Unavailable to students with credit for PETR132.

Designed to acquaint the petroleum engineering technology students with the techniques, equipment and engineering design considerations and calculations used in the oil and natural gas well drilling operations. Laboratories.

PETR2131 Marine Environment Protection, Safety and Loss Control

Credits: 3
Exclusions: Unavailable to students with credit for PETR221.

A study of the sources, characteristics, environmental effects and regulatory aspects of material/product control and the impact on the marine environment.

PETR2134 Materials and Equipment Design

Credits: 3
Exclusions: Unavailable to students with credit for PETR350.

A study of the materials selection process for equipment used in gas and oil operations. Corrosion mechanisms and inhibition methods are covered. Codes, standards and applicable specifications are presented, along with their applications.

PETR2135 Production Engineering

Credits: 3

Exclusions: Unavailable to students with credit for PETR380.

Designed to acquaint petroleum engineering technology students with the techniques, equipment, and engineering design considerations and calculations used in the oil and natural gas production operations. Laboratories and hands-on application employing petroleum engineering software packages that are popular in the industry.

PETR2161 Reservoir Engineering I

Credits: 3
Prerequisites: GEOL2101 and ENGI1168.
Exclusions: Unavailable to students with credit for PETR211.

Examination of characteristics of hydrocarbon bearing reservoirs. Calculation of porosity and permeability, coringand core properties. Determination of hydrocarbon in place and reservoir drive mechanisms.

PETR2163 Petroleum Process Simulation

Credits: 3
Exclusions: Unavailable to students with credit for PETR310.

Utilization of simulation software to model process operation and examine the effects of variation of process conditions. Equipment and process characteristics are emphasized.

PETR2164 Advanced Process Simulation

Credits: 3
Prerequisites: PETR2163.
Exclusions: Unavailable to students with credit for PETR340.

Utilization of simulation software to model process operation and examine the effects of variation of process conditions. Concentration on unit operations and production variation models.

PETR2165 Petroleum Project

Credits: 3
Exclusions: Unavailable to students with credit for PETR370.

A multidisciplinary course that involves the student to prepare a complete evaluation of a petroleum project including technical issues, regulatory issues, economic payback and presentation.

PETR2731 Selected Topics in Petroleum

Credits: 3
Exclusions: Unavailable to students with credit for PETR300.

This course provides a forum for directed study on a number of issues and concerns within the petroleum industry. Faculty as well as guest lecturers from academia, industry and government, will address students on pertinent topics and developments. Site visits and visual presentations on student exercises will supplement these seminars.

PETR3131 Management of Technological Innovation I **Cross-listed with ENVI3134**

Credits: 3
Exclusions: Unavailable to students with credit for PETR426 or ENVI426.

COURSE DESCRIPTIONS

This course examines the process whereby a research and development invention is converted into a socially useful and commercially successful new product. Small and large companies are studied. Petroleum case studies. Matched with PETR3161.

PETR3133 Project Design and Evaluation Techniques

Credits: 3
Prerequisites: PETR1131.
Exclusions: Unavailable to students with credit for PETR446.

This course requires the student to design, evaluate and present a petroleum project. The report will cover technical, operational, scheduling, regulatory and economic issues. A written and oral presentation of the study will be conducted.

PETR3134 Codes and Specifications in the Petroleum Industry

Credits: 3
Prerequisites: PETR1131.
Exclusions: Unavailable to students with credit for PETR447.

Examination and background information on code jurisdiction and interpretation of standards and specifications relevant to the petroleum industry. API, ASME, ANSI and CSA codes are included.

PETR3161 Management of Technological Innovation II Cross-listed with ENVI3165

Credits: 3
Exclusions: Unavailable to students with credit for PETR427 or ENVI427.

This course examines the process whereby a research and development invention is converted into a socially useful and commercially successful new product. Small and large companies are studied. Petroleum case studies. Matched with PETR3131.

PETR3163 Process Control and Optimization Systems

Credits: 3
Exclusions: Unavailable to students with credit for PETR436.

Detailed examination of petroleum production characteristics and fluid properties. Study of measurement and interface equipment. Detailed simulation experiments with production and equipment variation.

PETR3164 Distributed Control Systems and Programmable Logic Controllers

Credits: 3
Prerequisites: PETR3163.
Exclusions: Unavailable to students with credit for PETR437.

Study of measurement, control and electronic interface equipment. Criteria for selection and implementation of DCS and PLC equipment.

PHILOSOPHY (PHIL)

What is philosophy? There are questions which haunt or perplex human beings. Is abortion, mercy killing or suicide morally justifiable? What is a just distribution of wealth? Does God exist? Do people have free will? Is some art more profound than others? What is knowledge? These sorts of questions cannot be answered merely by gathering more information and they cannot be discussed except in terms of abstract concepts. Forced by the circumstances of life or

driven by curiosity, however, many people try to provide answers and to do so is to philosophize. Philosophy also examines the presuppositions of the various sciences and, through the study of logic, trains the mind in the art of reasoning.

With the exception of PHIL2105, there are no prerequisites for 2000-level courses. All 3000-level courses require 6 credits of Philosophy (with the exception of PHIL3130) and all 4000-level require 12 credits of Philosophy.

Courses marked 🖱 are also offered by distance.

PHIL1101 Knowledge and Reality

Credits: 3
Exclusions: Unavailable to students with credit for PHIL100.

Classic and Modern Texts will be read dealing with questions about God, reality, truth, the soul, mind and freedom of the will.

PHIL1103 Critical Thinking

Credits: 3
Exclusions: Unavailable to students with credit for PHIL115.

Skills are developed in recognizing mistakes in reasoning and constructing good arguments.

PHIL1104 Greek Philosophy: An Introduction

Credits: 3
Exclusions: Unavailable to students with credit for PHIL132.

Students will be introduced to Philosophy through the study of some works of Plato and Aristotle focusing on the nature of reality and of virtue.

PHIL1105 Philosophy and The Meaning of Life

Credits: 3
Exclusions: Unavailable to students with credit for PHIL203.

Novels, plays, short stories and philosophical essays by modern writers (Dostoyevsky to Sartre) will be used to explore the classic philosophical question: What gives human life a deep meaning?

PHIL2103 Philosophies of Love, Sex and Friendship

Credits: 3
Exclusions: Unavailable to students with credit for PHIL205.

What is love? How is it different than friendship? What, if any, relationships obtain between these concepts and sex? What differentiates morally acceptable from unacceptable sexual behaviour? These and other related questions will be explored through historical and contemporary readings.

🖱 **PHIL2105 Feminist Philosophy**

Credits: 3
Exclusions: Unavailable to students with credit for PHIL207.

This course will explore philosophy and values from a variety of feminist perspectives. It will investigate theories about women's "nature," political goals, ethics and art.

PHIL2107 Environmental Ethics

Credits: 3
Exclusions: Unavailable to students with credit for PHIL221.

A study of moral issues regarding the environment, overpopulation, animal rights, endangered species and the sublime in nature.

PHIL2109 The Existence of God **Cross-listed with RELS2109**

Credits: 3
Exclusions: Unavailable to students with credit for PHIL223 or RELS223.

The question concerning the existence of God is perplexing, since it arises in history but points to a reality beyond history. What can we know about God?

PHIL2111 Medical Ethics

Credits: 3
Exclusions: Unavailable to students with credit for PHIL225, PHIL330 or NURS330.
May not be taken in place of NURS3100 or PHIL3130 in BSc Nursing.

Long-standing moral controversies such as abortion and euthanasia will be examined, along with other issues includiing patient/doctor relationships, health-care allocation and organ donation.

PHIL2113 Debating Artistic Values

Credits: 3
Exclusions: Unavailable to students with credit for PHIL231.

Why is the colourization of movies controversial? What is wrong with a forgery? Why do we feel sad (or happy) for fictional characters in plays, movies and novels? What is conceptual art? These and other issues will be explored through readings and other media.

PHIL2115 Ethics and the Law

Credits: 3
Exclusions: Unavailable to students with credit for PHIL235.

An examination of alternative views of the law and of areas within the law in which philosophical issues arise. Issues to be studied include: Law's relation to morality, social practice and politics; liberty; liability and responsibility; punishment and rights.

PHIL2117 Business Ethics

Credits: 3
Exclusions: Unavailable to students with credit for PHIL237.

Do moral principles govern business activity? This question is studied through a series of contemporary issues which will be of interest to BA, BACS and, especially BBA students.

PHIL2119 Movies and Morals

Credits: 3
Exclusions: Unavailable to students with credit for PHIL239 or FINA239.

This course is concerned with the way movies have used the possibilities of the medium to both reflect and shape twentieth century moral conventions. Complete movies will be viewed.

PHIL2121 Contemporary Issues in Philosophy of Education

Credits: 3
Exclusions: Unavailable to students with credit for PHIL241.

A set of contemporary issues in secondary and post-secondary education will be studied. This course will be of special interest to students planning or having practical experience in education.

PHIL2123 World Views and Values

Credits: 3
Exclusions: Unavailable to students with credit for PHIL251.

An introduction to philosophical questions based on writings from some of the major world belief systems: Western, Hindu, Chinese and Muslim.

PHIL2125 Death and Dying: Dying and Values **Cross-listed with RELS2125**

Credits: 3
Exclusions: Unavailable to students with credit for PHIL257 or RELS257.

Death as a process of life. Cardiac, whole brain and higher brain definitions of death. Interdisciplinary perspectives. Moral standing and ethical principles. Death condemnation and embalming. DNR and DNH orders, transplants and living wills.

PHIL2127 Death and Dying: Death, Healing and Ageing **Cross-listed with RELS2127**

Credits: 3
Exclusions: Unavailable to students with credit for PHIL259 or RELS259.

Heidegger, Sartre and Marcel on the nature of death. Healing techniques: good and bad grief. Ageing as a process. The metaphysical structure of death as such (what death is like to the dead).

PHIL2129 Spirituality and Health **Cross-listed with RELS2129**

Credits: 3
Exclusions: Available to non-nursing students only with the permission of the instructor. Unavailable to students with credit for PHIL265 or RELS265.
Required for all students in the BSc Nursing Program.

This course introduces students to the links between spirituality, medicine, disease and illness as they relate to health and healing techniques throughout the lifespan. Health arises at the intersection of these links. The course is directed toward students in the nursing program, though other students may enroll with permission of the instructor.

PHIL2131 Religion and Health **Cross-listed with RELS2131**

Credits: 3
Prerequisites: PHIL2129
Exclusions: Available to non-nursing students only with the permission of the instructor. Unavailable to students with credit for PHIL267 or RELS267.
Required for all students in the BSc Nursing Program.

This course introduces students to the links between religion, culture and health. The major world religions offer guidance on how to live harmoniously with self, others and the environment, thereby playing a focal role in health issues. The course is directed toward students in the nursing program, though other students may enroll with the permission of the instructor.

PHIL2137 Canadian Political Values **Cross-listed with POLS2105**

Credits: 3
Prerequisites: 6 credits of 1000 level Political Science or permission of Instructor.
Exclusions: Unavailable to students with credit for PHIL215 or POLS215.

Our national experience has led Canadian thinkers to develop distinctive political philosophies. We explore their work with an eye to the contemporary scene in Canada.

PHIL2222 Science, Technology and Human Affairs

Credits: 6
Exclusions: Unavailable to students with credit for PHIL222.
Highly recommended for B.Sc students.

This course is intended to help students reflect on the nature of science and technology and their impact on human affairs.

PHIL3109 Contemporary Philosophy of Science

Credits: 3
Prerequisites: 6 credits of Philosophy.
Exclusions: Unavailable to students with credit for PHIL321.

This course will provide students with a better understanding of the nature of the scientific process by discussing such topics as explanation, the nature of scientific theory, observation, progress in science and scientific realism. It will also examine recent feminist and social constructivist critiques of science.

PHIL3130 Legal and Ethical Issues in Nursing Care **Cross-listed with NURS3100**

Credits: 6
Exclusion: Available to non-Nursing students only with the permission of the instructor. Unavailable to students with credit for PHIL330 or NURS330.

Examines the moral and ethical implications of various practices in the field of health care as they affect human life and the basic dignity of the person. Also treats the moral, ethical, legal and theological issues raised by recent developments in the life sciences.

PHIL3151 Introduction to Modern Political Thought Cross-listed with POLS3151

Credits: 3
Prerequisites: 6 credits of Philosophy.
Exclusions: Unavailable to students with credit for PHIL301 or POLS301.

The principles underlying political systems will be studied historically: Plato's criticism of democracy, Machiavelli's ideas on leadership, the concept of social contract and Marx and Hegel's dialectical view of history.

PHIL3153 In Search of the Just Society Cross-listed with POLS3153

Credits: 3
Prerequisites: 6 credits of Philosophy.
Exclusions: Unavailable to students with credit for PHIL303 or POLS303.

This course examines concepts of justice, human rights, freedom, democracy and gender equality in contemporary liberal, feminist, and human rights writings of the twentieth century.

PHIL3154 Feminist Philosophical Theory

Credits: 3
Exclusions: Unavailable to students with credit for PHIL359.

This course provides a historically progressive discussion of feminist philosophical theory. Its aim is to articulate the complexities of how feminist philosophy can identify and respond to interconnected forms of oppression within contemporary, often multicultural societies.

PHIL3155 Ethics I

Credits: 3
Prerequisites: 6 credits of Philosophy.
Exclusions: Unavailable to students with credit for PHIL305.

The major theories of classical and modern ethics will be critically examined and the concepts underlying problems in applied ethics studied: free will, reason and emotion and good and evil.

PHIL3157 Ethics II

Credits: 3
Prerequisites: 6 credits of Philosophy.
Exclusions: Unavailable to students with credit for PHIL307.

Has there been progress in ethical theory? Many of the same concepts studied in 3155 will be examined, but from the point of view of contemporary ethical theories.

PHIL3201 Religious Persecution to Religious Liberty I (to 1600)
Cross-listed with HIST3201 and RELS3153

Credits: 3
Prerequisites: 6 credits of Philosophy, HIST1100 or 6 credits of Humanities.
Exclusion: Unavailable to students with credit for PHIL353, HIST353, or RELS353.

This course examines ideas about religious intolerance, toleration, and liberty, from antiquity to the sixteenth century. Students will read and discuss important texts. Historical, theological and philosophical perspectives will be introduced.

PHIL3203 Religious Persecution to Religious Liberty II (from 1600)
Cross-listed with HIST3203 and RELS3155

Credits: 3
Prerequisites: PHIL3201.
Exclusions: Unavailable to students with credit for PHIL355, HIST355, or RELS355.

A continuation of PHIL3201. The seventeenth century worked out ideas presented during the Reformation, while the Enlightenment launched an all-out assault on bastions of intolerance. Modern approaches, theological, and philosophical, along with contemporary declarations, e.g. United Nations and Vatican II, will also be read.

PHIL4102 Medieval Philosophy

Credits: 6
Prerequisites: 12 credits of Philosophy.
Exclusions: Unavailable to students with credit for PHIL420.

This course examines the main themes of medieval philosophy in a historical context: St. Augustine, through St. Thomas Aquinas, to William of Occam.

PHIL4110 Modern Philosophy

Credits: 6
Prerequisites: 12 credits of Philosophy
Exclusions: Unavailable to students with credit for PHIL480 or PHIL 380.
Required course for Philosophy majors.

This course examines the writings of the major philosophers of the seventeenth and eighteenth century (Descartes to Kant) with an emphasis on metaphysics and epistemology.

PHIL4112 Nineteenth Century Philosophy

Credits: 6
Prerequisites: 12 credits of Philosophy.
Exclusions: Unavailable to students with credit for PHIL490 or PHIL 390.

English philosophy in the nineteenth century emphasized utilitarianism and idealism, Germans thought about history and irrationality and the Americans invented pragmatism. Topics will be drawn from these themes.

PHIL4120 Logic and the Analytic Tradition

Credits: 6
Prerequisites: 12 credits of Philosophy.
Exclusions: Unavailable to students with credit for PHIL412 or PHIL 312.
Required course for Philosophy majors.

As well as introducing students to the elements of symbolic logic, this course examines the main thinkers of the Analytic Tradition, one of the main traditions in twentieth century philosophy.

PHIL4122 The Continental Philosophical Tradition

Credits: 6
Prerequisites: 12 credits of Philosophy.
Exclusions: Unavailable to students with credit for PHIL440.

Nietzsche, Heidegger, Sartre, Foucault and others engaged in unique explorations of human consciousness, bodily life and language. These topics will be studied in the broad context of twentieth century intellectual life.

PHIL4130 Contemporary Readings in Social Justice

Credits: 6
Prerequisites: 12 credits of Philosophy.
Exclusions: Unavailable to students with credit for PHIL450.

What is a just society? This course examines the contemporary philosophical debate over this most important question as it relates to the ideals of liberty, equality and economic efficiency.

PHIL4700 Greek Philosophy

Credits: 6
Prerequisites: 12 credits of Philosophy.
Exclusions: Unavailable to students with credit for PHIL470 or PHIL 370.
Required course for Philosophy majors.

The central questions of philosophy were first raised by the Greek philosophers. This course examines the major works of Plato and Aristotle in their cultural and intellectual context.

PHIL4800 Directed Study

Credits: 6
Prerequisites: 12 credits of Philosophy.

Serious philosophy students may pursue, on a tutorial basis, a custom-made course. This will permit the student to study a particular topic in depth at an advanced level.

PHYSICAL EDUCATION/SPORT

See Sports and Human Kinetics

PHYSICS (PHYS)

Physics courses are offered to meet the needs of Engineering and Bachelor of Science students.

PHYS1102 Elements of Physics

Credits: 6
Exclusions: Unavailable to students with credit for PHYS110.

An algebra-based physics course designed for students in a life science program. The course introduces mechanics, waves, electricity, magnetism, optic, and modern physics.

PHYS1101, 1201 Elements of Physics I and II

Credits: 3
Prerequisites: Grade 12 Physics and Mathematics is recommended
Exclusions: Unavailable to students with credit for PHYS113, 115.

An algebra-based physics course designed for students in a life science program. The course introduces waves, wave superposition and interference, electricity, magnetism, optics and modern physics.

NOTE: This pair of courses replaces PHYS 110 (6 credits) with two 3 credit courses.

PHYS 1104, 1204 General Physics I and II

Credits: 3, 3
Prerequisites: Grade 12 Academic Mathematics and Physics.
Exclusions: Unavailable to students with credit for PHYS121, 122.

A calculus-based physics course designed for students intending to take further physics or engineering. The course introduces mechanics, waves, electricity, magnetism, optics, and modern physics. It is recommended that students take MATH1105/1206 concurrently.

PHYS 2201 Optics

Credits: 3
Prerequisites: PHYS1204, MATH1206
Exclusions: Unavailable to students with credit for PHYS231.

Introduction to optics with an emphasis on topics relevant to chemists and engineers. Topics will include geometric optics (lenses and curved mirrors), analysis of light as a wave, polarization, Fresnel equations for reflection and transmission of light, optical instrumentation, diffraction, Fourier analysis lasers andoptical properties of materials.

PHYS3201 Statistical Mechanics

Credits: 3
Prerequisites: PHYS 1204, CHEM 2203 or ENGI 2164
Exclusions: Unavailable to students with credit for PHYS351.

The main objective of this course is to provide students with an understanding of the connections between the microscopic (atomic scale) behaviour of physical systems and the macroscopic (on or near the scale of people) behaviour of physical systems. This is a two-way relationship. Our (sometimes experimental) knowledge of the atomic scale can allow us to predict properties of materials. Similarly, our (usually experimental) knowledge of the properties of materials can allow us to probe the properties of the atoms in those materials. Attention will be given to the kinetic theory of gases, which allows us to predict and extend the ideal gas law that students will have encountered in other courses. Students will also explore how these same approaches can lead to an understanding of magnetic systems, the physical properties of crystals and absorption and emission of light by hot objects.

POLITICAL SCIENCE (POLS)

Political Science is a constantly evolving field of study, fascinating in its diversity and rich in academic tradition. In a world of multiple challenges such as global warming, social and economic inequality, racism, violence, political apathy and the hollowing out of democracy, political scientists are called upon to examine and challenge the groups, systems and institutions that perpetuate injustice and to explore the opportunities for constructive intervention and social reform. Our

department approaches these challenges from several angles including public policy, institutional reform, law and social activism. Firmly grounded in the Liberal Arts, our discipline is concerned with providing students with the analytical tools and critical thinking skills to constructively contribute to their communities and the broader society.

The Department of Political Science offers a variety of courses in the fields of Canadian and International Politics. Our concentration areas include Canadian Politics and Government; Local and Regional Politics; Public Administration and Public Policy; Government Relations with Business and Civil Society; Law, Human Rights and Social Justice; International Political Economy; and Political Theory. In our courses, we explore the ideas and institutions that shape our political world with an aim to understand the role of the individual, of social groups and of nations in building a more just and ecologically sustainable future. All department members are actively engaged in community, regional, national and international service activities that shape and inform their teaching.

The sub-fields of the discipline include:

- Canadian politics and government - elections, parties, the media, Québec separatism, native self-government, the future of Canada.
- Public administration and public policy - ethics in government, local government, environmental policy, court management, social policy.
- Law and policy - the Charter of Rights, famous trials in history, human rights, criminal justice, civil liberties, children and the law, children's rights.
- International relations - current international politics, war and peace, conflict resolution, globalization, international political economy, government-business relations.
- Political thought and philosophy - ideas and ideologies that guide political systems, liberalism, socialism, feminism.

Students are welcome to take political science courses:

- As part of a major or minor in a degree program
- As elective courses
- As part of the Public Administration Diploma or certificate programs.
- And as part of the honours program in Political Science

Career options include:

- Government and public administration - policy analysis, public sector management, program evaluation
- Law and judicial administration -law, legal analysis in government, court management, criminology, criminal justice system official
- Foreign service -officer in the foreign service
- Social Justice work with non-governmental organizations (NGOs), community groups, government agencies or the UN.
- Business and business-government relations -consulting, partnering, interest group work, polling, policy research
- Teaching and research -teaching in public school or university, research for labour unions or work with NGOs
- Journalism - political and economic analysis, writing and reporting, editing

The prerequisite for courses at the 2000 level and beyond is 6 credits at the 1000 level or permission of the instructor.

Courses marked 🖱 are also offered by distance.

🖱 POLS1100 Politics, Law and Social Justice: Canadian and International Perspectives

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Credits: 6
Exclusions: Unavailable to students with credit for POLS100.

An introduction to the fundamental comparative concepts of political science: ideologies, political power, political behaviour, political/governing institutions, and the social and economic needs of individuals in society.

POLS2102 Basics of Canadian Politics and Government

Credits: 6
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS250 or POLS150.

The description, explanation and analysis of the major governmental and socio-political forces present at all levels of the Canadian political system.

POLS2103 Parties, Elections, and Democracy

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS273.

Political parties in Canada, elections and voting patterns and the impact of citizen participation on the quality of democracy.

POLS2104 Human Rights in Canada

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS297.

A study of the evolution of Canadian policy in the areas of human rights legislation, anti-hate laws, multiculturalism, First Nations self-government and employment equity.

POLS2105 Canadian Political Values Cross-listed with PHIL2137

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS215 or PHIL215.

Our national experience has led Canadian thinkers to develop distinctive political philosophies. The course explores their work with an eye to the contemporary scene in Canada.

POLS2110 Introduction to Canadian Public Administration

Credits: 6
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS222.

This course offers a lively introduction to the manner by which political power is exercised in this country by governments. The course will address issues of the democratic mandate, the setting of public policy, the structure and working of government institutions, public participation in government and government accountability.

POLS2111 The New Social Media: Politics and Communication in the 21st Century.

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS223.

This course will examine the nature of media and its impact on society, politics, governments, policy and the way people think about social, economic and political power in modern society.

POLS2112 Mi'kmaq Government Cross-listed with MIKM2220

Credits: 6
Exclusions: Unavailable to students with credit for POLS240 or MIKM240.

Examines the history of Mi'kmaq traditional leaderships. Indigenous self-governments in Canada will be used as a framework for discussion.

POLS2113 Public Political Opinion and the Media

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS225.

The formation and articulation of political opinion as it is influenced by the media, the political system, government and mass communications in Canada.

POLS2114 Scandals, Corruption and Lies: Power, Politics and Morality

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS227.

A close study of ethics and morals within public life, how and why politics and government are so often tainted with scandal and how ethical standards of political life can be improved. Much of the course will focus on both historical and current case studies.

POLS2115 Family Policies in Canada

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS235.

A study of evolving policies and laws in Canada that deal with changing family trends and increasing pressures on the family. Policies include the regulation of divorce, custody and child support, day care and parental leave, social assistance and economic supports and protection against domestic violence and abuse.

POLS2116 Government-Business Relations in Canada Cross-listed with MGMT2101

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS263 or BUSS272.

Offers a general overview of the close relationship between governments and businesses in this country. Probes the power relations at work, the many points of common interes, and the reasons for friction between government and business. Includes discussion of the methods by which these complex relationships are managed. The course is of equal interest to Political Science and Business Administration students.

POLS2117 Children's Rights Cross-listed with PSYC2317

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or Psychology or permission of instructor.
Exclusions: Unavailable to students with credit for POLS279, POLS395, PSYC279 or PSYC395.

This multidisciplinary course brings together perspectives from law and public policy and from developmental psychology, to introduce the student to the UN Convention on the Rights of the Child. The rights framework is used to examine current practices and their implications for child development in areas such as child poverty, youth justice and child protection.

POLS2120 An Introduction to United States Government and Politics

Credits: 6
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS230.

Examines the basic institutions of the US government: the role and powers of the president, the congress, the judicial system, the media and the political parties and interest groups.

POLS2121 The Politics of Social Division: Race, Gender and Class

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS275.

This course examines race, gender and class as they affect domestic and international politics. Particular attention will be paid to how these categories of social division have shifted over time and how the new politics of globalization may provide both challenges and opportunities for deepening equality and justice.

POLS2123 Contemporary US Foreign Policy

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS289.

This course introduces students to contemporary debates on where power lies in the US foreign policy making process. The course then examines salient case studies to understand distinct explanations on the roles that power, ethics and law play in the process of contemporary US foreign policy making.

POLS2131 Terrorism Security Policy and New World (Dis)Order

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS267.

Probes the nature of security policy, at home and abroad and the threat posed to peace and order by both domestic and international terrorism. Includes discussion of the nature of terrorism, its origins and the means by which it is fought.

POLS2133 War and Peace

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS269.

This course will offer an in-depth study of the nature of war, its origins and evolution, military strategy and the impact of war on individual soldiers and citizens through to entire states and ultimately the entire world. The nature of peace, the building blocks of peace and international harmony and the ways and means of ending wars and promoting peace through peacekeeping and peacemaking will also be examined.

POLS2134 South of the Border: Canadian, U.S. and Latin American Relations

Credits 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS281.

This course offers a critical overview and analysis of the political, economic, social and cultural relations, exchanges, tensions and opportunities existing between Latin America and her North American neighbours.

POLS2135 Rich Nations and Poor Nations: The Impact of Globalization

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS285.

This course explores the interlocking nature of development and underdevelopment from an international perspective.

POLS2136 International Politics of the Environment

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of the instructor.
Exclusions: Unavailable to students with credit for POLS291.

Situates environmental issues within the structures and processes of the international system. This course will have an environmental ethics/philosophy component to assist with the establishment of the “roots of the problem”.

POLS2140 Law and Society Cross-listed with ECON2140

Credits: 6
Exclusions: Unavailable to students with credit for POLS212, POLS112, ECON212 or ECON112.

This course provides an introduction to the study of law, government and the economy. It provides an understanding of leading social, political and economic issues and the impact of these issues on our life.

POLS2141 Criminal Justice

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS245.

Canada’s criminal justice system: policing, sentencing, corrections, parole, justice for women and minorities, issues of capital punishment and gun control.

POLS2143 Issues in Criminal Justice and Public Policy

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS247.

A study of major issues in the Canadian criminal justice system including civil liberties, the application of the Charter of Rights and policy on young offenders, female offenders, prisoners’ rights, aboriginal offenders,and aboriginal justice.

POLS2144 Famous Trials: The Administration of Justice

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS271.

A close study of landmark cases in the development of the theory and practice of justice in the Western world.

POLS2160 Qualitative Research Methods in Social Science Cross-listed with AN/S2210

Credits: 6
Prerequisites: 6 credits introductory Anthropology and/or Sociology or Political Science or strong background in related field.
Exclusions: Unavailable to students with credit for AN/S266 or POLS266.
A course in ethnographic methodology, techniques of generating non-numerical data and interpretive analysis and practical applications. Fieldwork approaches include intensive interviewing, participant observation and interpretation of print and broadcast media text.

POLS2161 Understanding Political Science Research

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS265.

This course will provide an overview of quantitative and qualitative research methods suitable for the study of public opinion, the impact of the media, elections, government performance, political values and culture and the implementation, impact and evaluation of public policies and programs.

POLS2162 Quantitative Research Methods and Statistics in Social Science

Cross-listed with AN/S2212

Credits: 6
Prerequisites: 6 credits introductory Anthropology and/or Sociology or Political Science, or strong background in related field; prior math skills are not required.
Exclusions: Unavailable to students with credit for POLS268 or AN/S268.
Satisfies the Group 5, BA core requirement, but also open to all degree students.

An overview of research designs that produce numbers as the data and a comprehensive study of survey methods. Includes methodological principles, sampling, preparation and administration of instruments, computerized data-analysis with SPSS, interpretive reporting and practical applications. Regular lab assignments in SPSS during second half of the course.

POLS3101 Canadian Government and Constitution

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS319.

An introduction to major constitutional issues including Confederation, constitutional law and amendment, Québec and the future of Canada.

POLS3103 Local Government in Canada

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS325.

The origins, evolution and contemporary situation of local government in Canada with special reference to Cape Breton.

POLS3104 Issues in Canadian Local Government

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS327.

A study of local policy issues in the Canadian context with focus on such topics as urban politics, policy and planning, local environmental politics, provincial-municipal relations and local economic development.

POLS3105 The Future of Work in Canada: The Challenges Facing Young Canadians

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS331.

Looks at the changing nature of work in Canada, focusing on the evolving job market, the role of government policy in structuring and promoting the development of work, and in assessing the problems and potential policy solutions respecting employment, underemployment, job creation and career promotion. Special attention given to concerns and needs of young Canadians.

POLS3106 The Charter of Rights and Civil Liberties

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS323 or POLS221.

A study of leading Charter of Rights cases dealing with the power of the police, rights of the accused, prisoners' rights, abortion, assisted suicide, pornography, the spread of hate and the death penalty.

POLS3110 Aboriginal and Treaty Rights in the Canadian Constitution
Cross-listed with HIST3110 and MIKM3120.

Credits: 6
Prerequisites: MIKM1100 or permission of instructor.
Exclusions: Unavailable to students with credit for POLS340, HIST312, or MIKM340.

The study of Mi'kmaq Aaboriginal and treaty rights in Atlantic Canada. The issue of enshrining Aboriginal and treaty rights in S.25 and S.35 of the Constitution Act (1982) will be emphasized.

POLS3111 Canadian Public Administration: Financial Management, Personnel Administration

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS375.

The major theoretical and practical issues and problems respecting financial management and personnel administration within Canadian governments.

POLS3113 Issues in Children's Rights Cross-listed with PSYC3301

Credits: 3
Prerequisites: 6 credits of 1000-level political science or psychology or permission of instructor.
Exclusions: Unavailable to students with credit forPOLS379 or PSYC379.

The course examines Canada's national and international obligations under the UN Convention on the Rights of the Child, from legal and developmental psychology perspectives in such areas as the sexual and economic exploitation of children, war affected children and children's environmental health.

POLS3114 Restructuring in the Canadian Public Sector

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS389.

Current issues and challenges in public administration and techniques of public sector management.

POLS3115 Introduction to Policy Studies

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS393.

A study of Canadian policies in the areas of health care, social welfare, the environment, criminal justice, education and the impact of globalization in bringing about change.

POLS3121 Leaders and Leadership

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS333.

A close review and analysis of the quality of leaders and leadership in government and society.

POLS3123 Revolution and Resistance

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS361.

Addresses the nature of revolutions looking at the theory and practice of revolutions and their political, social, economic and cultural impact. Types of revolutions studied will range from "traditional" revolutions (American, French, Russian) to such events as the Industrial Revolution, the Scientific Revolution, Women's Liberation, the youth movement and other social revolutions.

POLS3124 Art and Politics

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS305 or FINA305.

A study of how art influences political ideas and how politics influences artistic consciousness. Various theories relating to visual art forms such as paintings, posters, murals and sculptures will be explored within the context of the aesthetic dimension as well as through political culture.

POLS3130 International Politics in a Changing World

Credits: 6
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS366 or POLS256.

This course is designed to examine the configuration of power in the world today and provides an introduction to a range of issues, which although global in nature, have an impact on Canadians. Topics include international governance, terrorism and security issues, globalization, human rights, international law and environmental deterioration.

POLS3131 The United Nations: Origins, Structure and Development

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS351.

The genesis of international organizations; the League of Nations; and the creation, growth and development of the United Nations.

POLS3133 The United Nations: Its Role in International Affairs

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS353.

An in-depth analysis of the functions of the United Nations in the areas of political, economic, social and legal activities and its interaction with the international community.

POLS3134 An Introduction to International Law

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS355.

An introduction to the study of law by examining the nature of international law, its legal and judicial institutions and its impact on the behaviour of individuals, nation-states and international organizations.

POLS3135 An Introduction to Cases in International Law

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS357.

Introduces and analyses the milestone cases of international law in national and international courts.

POLS3136 Human Rights: International Dimensions

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS359.

This course will examine international efforts and structures for promoting international human rights. The course will address the development of human rights, the causes of rights abuse and ways and means of rights enforcement.

POLS3137 Politics of Natural Resources

Credits: 3
Exclusions: Unavailable to students with credit for POLS363.

This course examines the geopolitical and economic role of natural resources such as oil, coal and water in international relations and provides critical analysis of the connections between the world's increasing consumption of natural resources and conflict, globalization, human rights and climate change.

POLS3141 Canadian Courts and Court Management

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS371.

A close study of contemporary issues, problems and reform potentials facing the administration of justice in Canada.

POLS3143 Canadian Government and Administrative Law

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS377.

An introduction to the theoretical and practical relationships and issues existing within the Canadian administrative law system.

POLS3151 Introduction to Modern Political Thought Cross-listed with PHIL3151

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.
Exclusions: Unavailable to students with credit for POLS301 or PHIL301.

The principles underlying political systems will be studied historically: Plato's criticism of democracy, Machiavelli's ideas on leadership, the concept of social contract and Marx and Hegel's dialectical view of history.

POLS3153 In Search of the Just Society Cross-listed with PHIL3153

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor. Exclusions: Unavailable to students with credit for POLS303 or PHIL303.

This course examines concepts of justice, human rights, freedom, democracy and gender equality in modern philosophy.

POLS3107 Provincial Government

Credits: 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor. Exclusions: Unavailable to students with credit for POLS321.

A study of Provincial governments and policies in Canada, with special reference to Nova Scotia.

POLS3154 Music and Nationalism Cross-listed with MUSI3613

Credits: 3
Prerequisites:-Any 6 credits of ETHM/MUSI course (except performance); and/or a Political Science course.
Exclusions: Unavailable to students with credit for ETHM369, FINA369 or POLS369.

This course examines how music can be a potent tool for both building nations and critiquing them. Music can express national identities, narrate national myths, and mark national borders, but it can also critique, deconstruct, and transgress. While many find it easy to accept that music reflects social beliefs and values, in this course we explore how music can be actively used to shape national ideas, principles and standards.

POLS3701, 3703 Directed Independent Study, Junior Level

Credits: 3, 3
Prerequisites: 6 credits of 1000-level Political Science or permission of instructor.

This course is designed for students to pursue a special field of study and research under a department supervisor and also as an integral part of the Certificate in Public Administration.

POLS4100 Seminar in Canadian Politics

Credits: 6
Prerequisites: 12 credits of Political Science.
Exclusions: Unavailable to students with credit for POLS420.

An in-depth study of a specific aspect of political life in Canadian society. A central theme is selected each year.

POLS4110 Seminar in Public Policy

Credits: 6
Prerequisites: 12 credits of Political Science.
Exclusions: Unavailable to students with credit for POLS410.

A study of leading public policy fields in Canada, major issues, and current revisions in light of forces of fiscal restraint and globalization.

POLS4130 Seminar in International Relations

Credits: 6
Prerequisites: 12 credits of Political Science.
Exclusions: Unavailable to students with credit for POLS430.

This course is designed to offer an in-depth study of a specific aspect of international relations. A central theme will be selected in light of current and emerging issues of interest and concern.

POLS4800 Directed Independent Study, Senior Level

Credits: 6
Prerequisites: 12 credits of Political Science.

See the Department Chair for details.

POLS4900 Honours Thesis

Credits: 6
Prerequisites: 12 credits of Political Science.

This course is the thesis component of the honours program in Political Science. Students will undertake an individual research project on a topic of their own choosing in consultation with a faculty advisor.

PSYCHOLOGY (PSYC)

Courses marked are also offered by distance.

PSYC1100 Introduction to Psychology

Credits: 6
Exclusions: Unavailable to students with credit for PSYC100.

Psychology is the scientific study of behaviours and mental processes and how they are affected by an organism's physical state, mental state and external environment. The course surveys theories, states of consciousness, sensation, perception, learning, thinking, intelligence, memory, emotion, motivation, personality, development over the life span, health, psychological disorders, therapy and social psychology

PSYC2101 Data Analysis

Credits: 3
Prerequisites: PSYC1100.
Exclusions: Unavailable to students with credit for PSYC201.

An introduction to the application of statistical methods to the solution of research problems in psychology. Commonly used elementary descriptive and inferential statistical procedures will be presented in a context emphasizing an understanding of the general principles of sampling error and hypothesis testing.

PSYC2111 Research Methods in Psychology

Credits: 3
Prerequisites: PSYC1100, PSYC2101.
Exclusions: Unavailable to students with credit for PSYSC203.

An introduction to the conduct of inquiry in psychology, including experimental design (internal and external validity), scientific paper writing, social psychological and ethical factors in the experimental situation and elementary philosophy of science.

PSYC2251 Drugs and Behaviour **Cross-listed with BIOL2225**

Credits: 3
Prerequisites: PSYC1100.
Exclusions: Unavailable to students with credit for PSYC225 or BIOL 225.

This course will review the basic principles and concepts of pharmacology, psychology and neurophysiology. Then the course concentrates on drug classes, recreational (e.g. alcohol and marijuana) and prescribed (e.g. benzodiazepines and antidepressants) and details the specific drugs within each class.

PSYC2253 Health Psychology

Credits: 3

Prerequisites: PSYC1100
Exclusions: Unavailable to students with credit for PSYC227 or PSYC325.

The course examines the role of psychological risk and protective factors in the promotion and prevention of health and illness. Topics covered include stress and coping, the psychological effects of patient-centered care, health-compromising behaviors and health promotion.

PSYC2317 Children's Rights **Cross-listed with POLS 2114**

Credits: 3
Prerequisites: POLS1100 or PSYC1100
Exclusions: Unavailable to students with credit for PSYC279, PSYC395, POLS279 or POLS395.

What are children's rights and why are they important? Using the UN Convention on the Rights of the Child as the framework, the course examines these questions from the perspectives of Canadian policy and child development.

PSYC2400 Social Psychology

Credits: 6
Prerequisites: PSYC1100.
Exclusions: Unavailable to students with credit for PSYC240

Social psychology is the scientific study of social interaction in its broadest sense. In addition to an early module on relevant scientific research approaches and methods, the course surveys theories and research dealing with social cognition, social perception, attitudes, attitude change, social influence, conformity, compliance, obedience, prejudice, discrimination, group dynamics, leadership, aggression, violence, helping behavior, interpersonal attraction, affiliation, friendship, love, romantic relationships and selected health, environmental, legal, political, educational and organizational applications.

PSYC2500 Personality

Credits: 6
Prerequisites: PSYC 1100.
Exclusions: Unavailable to students with credit for PSYC250.

Explores several "grand" theories intended to account for the origins and development of our views of ourselves and how we relate to each other including the psychoanalytic, trait, learning theory, biological, cognitive and humanistic perspectives. Examples of research attempts to validate the theories will be discussed and students will complete personality assessment instruments.

PSYC2600 Developmental Psychology

Credits: 6
Prerequisites: PSYC1100.
Exclusions: Unavailable to students with credit for PSYC260.

Developmental Psychology is the systematic study of changes and continuities in physical, cognitive and psychosocial functioning in humans, from conception to death and how they are influenced by the person's biological nature and experienced nurture.

PSYC2651 Human Sexuality and Sex Education

Credits: 3
Prerequisites: PSYC1100
Exclusions: Unavailable to students with credit for PSYC265 or PSYC365

Few topics raise controversy as quickly as discussions of human sexuality, yet it is normal human behaviour. Topics covered in this course include historical and cultural perspectives on sexuality, anatomy, hormones, conception and birth, contraception, sexual dysfunction, gender issues, arousal and communication, attraction and love, sexual orientation, sexually transmitted infections, erotica and pornography, sexual coercion and sexual variation. Students in this course will learn the human sexual response and how it interacts with cognitive and social processes that surround sex, in order to gain a better appreciation for the diversity of sexual practices and opinions.

PSYC3101 Research Practicum in Psychology

Credits: 3
Prerequisites: 12 credits in Psychology with a 60% average, including PSYC2111.
Exclusions: Unavailable to students with credit for PSYC303

Designed to give students practical experience in planning, conducting and evaluating psychological research. Topics include various ANOVA, correlational and multivariate designs. Weekly lab assignments require students to use computer packages to perform analyses, interpret and report the results. This course fulfils the BSc computer proficiency requirement.

PSYC3200 Sensation and Perception

Credits: 6
Prerequisites: 12 credits in Psychology with a 60% average.
Exclusions: Unavailable to students with credit for PSYC320.

Explores how information in the world is registered by the senses, conveyed to the brain and organized and interpreted to form meaningful perceptions of the world. Topics include anatomy and physiology of the sensory systems, principles of perceptual organization, perceptual development and the methods used to study sensation and perception.

PSYC3201 Motivation

Credits: 3
Prerequisites: 12 credits in Psychology with a 60% average.
Exclusions: Unavailable to students with credit for PSYC311.

This course considers the many reasons why people behave as they do. The interwoven physiological, cognitive and social processes that combine to energize behaviour and give it direction will be studied. Motives may be internal or external, they may complement or oppose each other and the motivations we experience often help us define our sense of self. Particular emphasis will be given to the often misunderstood nature of emotions and the central role they play in motivating behaviour.

PSYC3203 Learning

Credits: 3
Prerequisites: 12 credits in Psychology with a 60% average
Exclusions: Unavailable to students with credit for PSYC309 or PSYC211

The fundamental principles of learning derived from research with animal and human subjects and the application of these principles to the understanding and prediction of behaviour.

PSYC3211 Cognition

Credits: 3
Prerequisites: 12 credits in Psychology with a 60% average
Exclusions: Unavailable to students with credit for PSYC319 or PSYC221.

Cognition refers to the mental processes used in acquiring, storing, elaborating, retrieving and using information. Topics covered in this survey of cognitive psychology include attention, memory, pattern recognition, mental imagery, psycholinguistics, the mental structure of general knowledge, problem-solving, concept formation and decision-making.

PSYC3213 Physiological Psychology

Credits: 3
Prerequisites: 12 credits in Psychology with a 60% average. Recommended preparation: 6 credits of 1000 level Biology.
Exclusions: Unavailable to students with credit for PSYC321.

Physiological psychology is concerned with the structure and functions of the nervous systems.

PSYC3301 Issues in Children's Rights Cross-listed with POLS3113

Credits: 3
Prerequisites: 6 credits of 1000 level Political Science or Psychology or permission of instructor.
Exclusions: Unavailable to students with credit for PSYC379 or POLS379

We examine Canada's national and international obligations under the UN Convention on the Rights of the Child, from legal and developmental psychology perspectives in such areas as the sexual and economic exploitation of children, war affected children and children's environmental health.

PSYC3303 Positive Psychology

Credits: 3
Prerequisites: PSYC1100/100; 12 credits in Psychology with a 60% average.
Exclusions: Unavailable to students with credit for PSYC371.

Much of psychology is focused on disorders and what has gone wrong in development. Positive psychology is the study of how human beings prosper. The goal of positive psychology is to identify and enhance the human strengths and virtues that help human beings prosper and live well. This course will provide an introduction to positive psychology. It is designed to explore the concepts, research behind the concepts, techniques, and exercises that enhance well-being. The format of the course will be both experiential and research-based. Readings and exercises will be given weekly. A key component will be online participation by the students in small groups

PSYC3501 Abnormal Psychology

Credits: 3
Prerequisites: 12 credits in Psychology with a 60% average, including PSYC 2500, either completed or concurrent.
Exclusions: Unavailable to students with credit for PSYC371.

This course examines the genetic, familial and sociocultural correlates of abnormal behavior and psychological disorders. The concept of psychopathology is analysed from cross-cultural, socioeconomic and political perspectives

PSYC3611 Psychology of Adolescence

Credits: 3
Prerequisites: 12 credits in Psychology with a 60% average, including PSYC 2600.
Exclusions: Unavailable to students with credit for PSYC361.

The developmental patterns and experiences of contemporary adolescents are examined from an ecological theoretical perspective.

PSYC4101 History of Psychology

Credits: 3
Prerequisites: 18 credits in Psychology with a 60% average.
Exclusions: Unavailable to students with credit for PSYC431.

The development of psychology in Western civilization from approximately 1800 to the present, focusing on certain key, perennial issues.

PSYC4211 Advanced Cognition

Credits: 3
Prerequisites: 18 credits in Psychology with a 60% average, including PSYC3211.
Exclusions: Unavailable to students with credit for PSYC421.

Focuses on higher mental activities such as language, memory, thinking, decision-making, creativity and problem solving including applications in education, business and other situations.

PSYC4231 Neurobiology Cross-listed with BIOL 4201

Credits: 3
Prerequisites: PSYC 3213 or BIOL 3200.
Exclusions: Unavailable to students with credit for PSYC423 or BIOL423.

This course introduces basic anatomical and physiological principles of neuroscience extending from basic biophysical properties of neurons and glia, to the physiological basis of sensory processing, motor behaviour, learning and memory. Neurobiology differs from PSYC3213 in that it will go into significantly greater depth on basic physiology and will not attempt the general survey of all behaviour.

PSYC4401 Advanced Topics in Social Psychology

Credits: 3
Prerequisites: 18 credits in Psychology with a 60% average, including PSYC2400.
Exclusions: Unavailable to students with credit for PSYC441.

The course focuses on one or a few related topics in social psychology. Topics may vary from year to year; please consult the instructor. Possible topics include: social cognition, affiliation, social interaction, attitude change and development, social theories of emotion, attribution theory, social perception and self-concepts.

PSYC4403 Advanced Social Psychology Theory

Credits: 3
Prerequisites: 18 credits in Psychology with a 60% average, including PSYC2400.
Exclusions: Unavailable to students with credit for PSYC443

An overview of social psychological theory as well as a framework for integrating social psychological research and understanding social change.

PSYC4570 Introduction to Clinical Psychology

Credits: 6
Prerequisites: 18 credits in Psychology with a 60% average, including PSYC3501, either completed or concurrent.
Exclusions: Unavailable to students with credit for PSYC470.

This course introduces students to the field of clinical psychology. The history and development of the field are positioned to gain insight into current practices in the treatment of psychological disorders. Other topics include assessment and methods of intervention with individuals, groups, families and children.

PSYC4571 Counseling Psychology

Credits: 3
Prerequisites: 18 credits in Psychology with a 60% average.
Exclusions: Unavailable to students with credit for PSYC485.

This course examines the major theories of counseling, introduces the basic interviewing skills practised by those in the helping professions and acquaints students with a variety of counseling applications.

PSYC4611 Advanced Developmental Psychology

Credits: 3
Prerequisites: 18 credits in Psychology with a 60% average, including PSYC2600.
Exclusions: Unavailable to students with credit for PSYC461.

This course will examine contemporary issues in developmental psychology.

PSYC4631 Childhood Behaviour Disorders

Credits: 3
Prerequisites: 18 credits in Psychology with a 60% average, including PSYC 2600.
Exclusions: Unavailable to students with credit for PSYC463.

This course examines the etiology, diagnostic criteria, treatments, and outcomes of a variety of childhood developmental disorders including conduct disorder, autism, ADHD and eating disorders.

PSYC4633 Psychology of Childhood Violence

Credits: 3
Prerequisites: 18 credits in Psychology with a 60% average.
Exclusions: Unavailable to students with credit for PSYC465.

The antecedents and correlates of childhood violence will be examined within the ecological systems framework, from the neurological status of the newborn to the provision of societal supports for parenting.

PSYC4801(3 credits) PSYC 4800 (6 credits) and PSYC 4803 Directed Study

Students may select a course of study on any psychological topic of special interest to them, for which an appropriate faculty supervisor can be found. The student must obtain the consent of a faculty member to act as a supervisor before registering for this course.

PSYC4900 Honours Seminar and Thesis

Credits: 6
Prerequisites: At least 36 credits in Psychology with an average of 75%, including PSYC2111 and PSYC3101 either completed or concurrent.

This course is for honours students in Psychology (BA or BSc). The purpose of the course is to assist students in completing their honours thesis projects. The honours thesis is an original empirical study carried out during the academic year. The weekly seminar component of the course will allow students to discuss their research as it

progresses, to share ideas and both assist and learn from each other as they complete their research project. Students also meet one-on-one with a faculty advisor who will provide guidance as the research project unfolds.

PUBLIC HEALTH (PUBH)

Courses marked 🖱 are also offered by distance.

PUBH1101 Cellular Processes and Environmental Effects

Credits: 3
Exclusions: Unavailable to students with credit for PUBH101.

The anatomy and physiology of the cell, with a special focus on the processes (transport membranes, internal respiration, mitosis, protein synthesis) which are most vulnerable to the pathological effects of toxic agents. Major environmental effects are also examined including mutations, reproductive effects, birth defects and cancer.

PUBH1103 Environmental Issues in Public Health

Credits: 3
Exclusions: Unavailable to students with credit for PUBH122.

This course outlines the importance of undertaking the study of human health in relationship to the environment and developmental and environmental changes. Fundamental to this study is the understanding that our well-being is supported and dependent on the conservation and integrity of the biosphere. Issues in Public Health, ranging from local to global, are at the center of discussion. Topics impacting public health that will be integrated into this course include climate change, global warming, biodiversity loss, erosion, land degradation, deforestation, desertification, zoning and planning issues.

PUBH1104 Physical Agents and Their Health Effects

Credits: 3
Exclusions: Unavailable to students with credit for PUBH131.

Discussion of various physical agents, with a focus on their health effects. Topics covered include electromagnetic spectrum, temperature extremes, noise, and ergonomics.

PUBH2101 Municipal Services

Credits: 3
Exclusions: Unavailable to students with credit for PUBH204.

Municipal water and wastewater services will be examined from a public health perspective. Concepts covered include chemical, physical and biological properties of water and wastewater, sampling protocol, processing, distribution, design components, hydrology, storm water control, innovative technology and a fundamental understanding of the legislation and regulations governing the water and wastewater industry. Field trips will complement the lecture principles.

PUBH2103 Public Health Law

Credits: 3
Exclusions: Unavailable to students with credit for PUBH211.

Students will become acquainted with the legal process associated with environmental and public health issues. The course includes an overview of legislation and case law associated with environmental and public health issues. The process of enforcement of legislation and defence of alleged violations is included in the course content.

PUBH2104 Anatomy and Physiology

Credits: 3
Exclusions: Unavailable to students with credit for PUBH214.

An introduction to the major organ systems and the roles they play in the maintenance of normal function, particularly when confronted with infectious diseases and other environmental threats.

PUBH2105 Public Health Inspection

Credits: 3
Exclusions: Unavailable to students with credit for PUBH217.

Assessment for and design of on-site sewage disposal systems. Characteristics of potable water from ground and surface sources, including source protection, treatment procedures and monitoring. Recreational water standards, management and monitoring.

PUBH2106 Food Quality

Credits: 3
Exclusions: Unavailable to students with credit for PUBH224.

An introduction to basic food chemistry, including the physical properties and chemical reactions of water, lipids, fats, oils, carbohydrates, proteins and enzymes. Primary processing of meat and poultry, dairy and egg products will be considered and techniques of food grading discussed. The use of food additives, including colour additives, will also be examined.

PUBH2107 Emergency Preparedness

Credits: 3
Exclusions: Unavailable to students with credit for PUBH227.

An introductory course addressing fundamental concepts and approaches. Links the ideals and ideas of public health with the disaster and emergency management fields. Types of disasters and their consequences are considered, along with the role of public health professionals in planning and response, bioterrorism issues, recovery and reconstruction and responsive evaluation.

PUBH2108 Engineering Issues in Public Health

Credits: 3
Exclusions: Unavailable to students with credit for PUBH234.

Provides an introduction to several engineering disciplines which are part of the academic requirements for CIPHI certification. Included are an overview of engineering drawing technique, HVAC, blueprint reading and the basics of surveying. It is intended to provide the basis for understanding these issues without in-depth design focus.

PUBH3101 Food Hygiene

Credits: 3
Exclusions: Unavailable to students with credit for PUBH314.

Topics include strategies for food safety, prevention and investigation of food borne illness, food preservation, HACCP, inspection, recall procedures and regulation review.

Presented in the facilities for food preparation of the Hospitality Administration program. Labs will be every other week.

PUBH3103 Public Health Administration

Credits: 3
Exclusions: Unavailable to students with credit for PUBH317.

Considers the fundamentals of public administration for public health programs including the levels of organization. The processes of policy development, interactive planning, strategic planning, program implementation, evidence gathering and performance management are examined.

PUBH3104 Toxicology

Credits: 3
Prerequisites: PUBH2104 or BIOL3200.
Exclusions: Unavailable to students with credit for PUBH322.

Basic concepts of toxicology are introduced, followed by instruction in the physiological mechanism of toxic agents on the body. Topics include dose response calculations, determination of margins of safety, a review of the toxicology of natural and man-made chemicals and a discussion of scientific research principles.

PUBH3105 Public Health Ethics

Credits: 3
Exclusions: Unavailable to students with credit for PUBH327.

Public health practice demands that scientific considerations be blended with political realities questions of autonomy and jurisdiction, individual rights, social justice, coercion, norms of research, multi-cultural values, and the common good. This unit is intended as a resource to enhance and encourage thoughtful, well informed and critical discussions of ethical issues in public health.

PUBH3106 Epidemiology

Credits: 3
Exclusions: Unavailable to students with credit for PUBH395.

This course covers the development and history of epidemiology with its importance to public health. Topics include incidence, prevalence, cohort studies, risk ratios, rates of disease, mortality, morbidity, case control studies and experimental studies. The relevance of study results is discussed along with a determination of the advantages and disadvantages of the varying study designs.

PUBH4101 Health Risk Assessment

Credits: 3
Exclusions: Unavailable to students with credit for PUBH411.

Introduces the fundamentals of risk assessment and demonstrates their application to selected environmental and public health concerns. Problem definition and step-wise analysis techniques will be stressed using practical case examples. A four-step process is taught: risk identification, risk evaluation, risk management and risk control.

PUBH4103 Communicable Disease Control

Credits: 3
Prerequisites: 6 credits in Public Health.
Exclusions: Unavailable to students with credit for PUBH417.

Examines the role of health personnel in the control of infectious disease in institutional environments, with respect to appropriate preventive policy and procedures, inspection and investigation. Particular attention is paid to problem areas unique to hospitals, schools, housing and facilities for child and adult care. Recreational, animal care, and personal services facilities are examined in addition to biomedical waste handling and response to nuisance-type situations. Strategies for managing vaccine-preventable, sexually transmitted, and emerging infectious diseases are also discussed.

PUBH4104 Food Borne Diseases

Credits: 3
Prerequisites: 3 credits in Introductory Microbiology.
Exclusions: Unavailable to students with credit for PUBH419.

A survey of the agents of food borne disease. Bacteria, viruses, protozoa and parasites all play a role in various diseases related to food contamination. How food becomes contaminated, the health effects of contamination and preventive measures will be discussed. Laboratory sessions will focus on methods of detection, isolation and enumeration of organisms associated with food.

PUBH4105 Occupational Health and Safety Legislation

Credits: 3
Exclusions: Unavailable to students with credit for PUBH421.

Specific jurisdictional legislation dealt with includes the Canadian Federal Labour Code, the Nova Scotia Occupational Health and Safety Act and the American Occupational Health and Safety Act. Material will be presented using lectures and review of appropriate legislative documents.

PUBH4106 Public Health Education

Credits: 3
Prerequisites: 6 credits in Public Health.
Exclusions: Unavailable to students with credit for PUBH427.

Principles of adult education are examined and are used to present and address current issues in the public health realm, including healthy public policy, health promotion, population health, chronic diseases, injury prevention, sexually transmitted disease and lifestyle considerations.

PUBH4107 Quality and Environmental Project Management

Credits: 3
Exclusions: Unavailable to students with credit for PUBH435.

Provides an introduction to both general management systems (9000) and environmental management systems (14000) standards. Will also provide an understanding of the processes of registration and the management systems necessary to obtain registration. Advantages and disadvantages of registration will be discussed.

PUBH4108 Biocontaminants in Indoor Environments

Credits: 3
Prerequisites: 3 credits in Introductory Microbiology.
Exclusions: Unavailable to students with credit for PUBH441.

An examination of the various biocontaminants that may be found in indoor environments and their effects on the health of occupants. The diversity, prevalence and health effects of fungi will be examined in detail. Methods of site evaluation, sampling and remediation will be discussed, as well as control strategies. Bacteria, dust mites, pet dander and other biocontaminants will also be examined in the context of their potential health effects.

PUBH4109 Waste Management

Credits: 3
Exclusions: Unavailable to students with credit for PUBH457.

Waste Management provides an overview of waste disposal in society and the implications such disposal has on the health of the public and the environment. This course addresses fundamental concepts and approaches to management of hazardous and non-hazardous waste. Considered are classification, tracking, reduction, reuse, recycling, collection, disposal and end use of waste streams, and the treatment/beneficial reuse of non-hazardous/hazardous wastes, inclusive of innovative technologies and the development of legislation/development of guidelines, regulations and standards. The role of public health and environmental professionals in regulatory compliance and control as well as spill response will be examined. The course concludes with evaluation and control strategies the public health inspector might recommend.

PUBH4111 Integrated Pest Management

Credits: 3
Exclusions: Unavailable to students with credit for PUBH466.

The concept of integrated pest management and the elements of the IPM approach are discussed. Options for pest control in various sectors and environments are examined, as are the characteristics and life cycles of common insect and rodent pests. Pesticides, along with their control and application are considered.

RELIGIOUS STUDIES (RELS)

Some students will be interested in undertaking Religious Studies either because of the perspectives which religion provides for integrating the content of other disciplines or because of professional goals involving ministry or graduate studies. These students are encouraged to consider a concentration in Religious Studies. Members of the department will be pleased to advise students in regard to appropriate patterns of course-work to fit their interests or pre-professional needs.

Courses marked are also offered by distance.

RELS1115 Introduction to World Religions: Eastern Traditions
Cross-listed with HIST1115 and HUMA1104

Credits: 3
Exclusions: Unavailable to students with credit for RELS115, HIST115, HUMA115, or RELS110.

The history, practice and meaning of the Hindu and Buddhist traditions will be examined along with Jainism and Sikhism. Their contribution to our understanding of religion as a whole and present day role of these traditions in world events will be discussed.

RELS1117 Introduction to World Religions: Western Traditions
Cross-listed with HIST1117 and HUMA1105

Credits: 3
Exclusions: Unavailable to students with credit for RELS117, HIST117, HUMA117 or RELS110.

Judaism, Christianity and Islam are three great world religions that have influenced present day Western society. This course will examine the origins, major historical developments, cultural influence and teachings of these world religions. There will also be an emphasis on the role these religions play in current world events and politics.

RELS2101 Introduction to the Bible: The Hebrew Scriptures

Credits: 3
Exclusions: Unavailable to students with credit for RELS101.

Examines the record of the Israelite's experience of God as recorded in the Hebrew Bible.

RELS2103 Introduction to the Bible: The New Testament

Credits: 3
Exclusions: Unavailable to students with credit for RELS103.

The New Testament is examined as a record of the experience of the first generation of Christians.

RELS2104 Celtic Religion I: Druidism

Credits: 3
Exclusions: Unavailable to students with credit for RELS271.

This course studies the history, philosophy, teachings and practices of the pagan religion, Druidism, among the Celtic peoples of England, Scotland, Wales and Ireland before the dawn of Christianity in the fifth century, A.D.

RELS2105 Celtic Religion II: Christianity

Credits: 3
Exclusions: Unavailable to students with credit for RELS273.

Covers the spread of Christianity to England, Scotland, Wales, and Ireland and the clash which developed between Celtic and Roman Christianity.

RELS2106 Cults and New Religious Movements

Credits: 3
Exclusions: Unavailable to students with credit for RELS295.

This course introduces students to various new religious movements – or "cults" in popular discourse. The course examines their origins, beliefs and practices and provides an understanding to these new religious movements through the social scientific study of religion. Possible groups for consideration may include The Branch Davidians, Jonestown, The Church of Scientology, The Children of God (The Family), Wicca, Hare Krishna and Falon Gong.

RELS2109 The Existence of God **Cross-listed with PHIL2109**

Credits: 3
Exclusions: Unavailable to students with credit for RELS1113 or PHIL1113.

The question concerning the existence of God is perplexing, since it arises in history but points to a reality beyond history. What can we know about God?

RELS2125 Death and Dying: Dying and Values **Cross-listed with PHIL2125**

Credits: 3
Exclusions: Unavailable to students with credit for RELS257 or PHIL257.

Death as a process of life. Cardiac, whole brain, and higher brain definitions of death, interdisciplinary perspectives, moral standing and ethical principles, death condemnation and embalming, DNR and DNH orders, transplants and living wills.

RELS2127 Death and Dying: Death, Healing, and Ageing **Cross-listed with PHIL2127**

Credits: 3
Exclusions: Unavailable to students with credit for RELS259 or PHIL259.

Heidegger, Sartre and Marcel on the nature of death. Healing techniques: good and bad grief, ageing as a process, the metaphysical structure of death as such (what death is like to the dead).

RELS2129 Spirituality and Health **Cross-listed with PHIL2129**

Credits: 3
Exclusions: Available to non nursing students only with permission of the instructor. Unavailable to students with credit for RELS265 or PHIL265.
Required for all students in the BSc Nursing Program.

Introduces students to the links between spirituality, medicine, disease and illness as they relate to health and healing techniques throughout the lifespan. Health arises at the intersection of these links. This course is directed toward students in the nursing program though other students may enroll.

RELS2131 Religion and Health **Cross-listed with PHIL2131**

Credits: 3
Prerequisites: RELS1133.
Exclusions: Available to non- nursing students only with permission of the instructor. Unavailable to students with credit for RELS267 or PHIL267. Required for all students in the BSc Nursing Program.

Introduces students to the links between religion, culture, and health. The major world religions offer guidance on how to live harmoniously with self, others and the environment, thereby playing a focal role in health issues. This course is directed toward students in the nursing program though other students may enroll.

RELS2141 Religion and Literature

Credits: 3
Exclusions: Unavailable to students with credit for RELS241.

This course introduces students to religious themes and ideas that may be found in literary forms such as novels, poetry, and children's stories from various cultural backgrounds.

RELS2143 Religion and Popular Culture

Credits: 3
Exclusions: Unavailable to students with credit for RELS243.

Increasingly in modern society, films have become the forum for presentation of religious ideas. In this course, we will examine how the medium of film has shaped our ideas on various religious themes.

RELS2161 History of Christianity I: The Christianization of Western Europe
Cross-listed with HIST2108

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for RELS261 or HIST261.

The rise of Christianity from its origins as a sect within Judaism to its domination of life in medieval Europe.

RELS2163 History of Christianity II: Christianity in the Modern World
Cross-listed with HIST2109

Credits: 3
Prerequisites: HIST1100 or 6 credits Humanities.
Exclusions: Unavailable to students with credit for RELS263 or HIST263.

The history of Christianity from the reformations of the sixteenth century to the present.

RELS2180 Liberation Theology

Credits: 6
Exclusions: Unavailable to students with credit for RELS280.

Liberation Theology is characterized by continual reference to the social, economic and cultural experience of the people of Latin America, combined with a creative reading of the Bible and the Christian tradition.

RELS2191 Women in the Western Religious Tradition

Credits: 3
Exclusions: Unavailable to students with credit for RELS291.

Feminist theology has developed recently as a critique and reinterpretation of traditional theology of women. The course examines this new theology and the new insights it generates in the Western religious tradition.

RELS2193 Women in the Eastern Religious Tradition

Credits: 3
Exclusions: Unavailable to students with credit for RELS293.

Feminist theology has developed recently as a critique and re-interpretation of traditional theology of women. This course examines this new theology and the new insights it generates in the Eastern religious tradition.

RELS3130 Religion and Apocalypticism

Credits: 6
Exclusions: Unavailable to students with credit for RELS330.

Explores the prophetic and apocalyptic texts of the Hebrew Bible in their relevance for Judaism and Christianity today.

RELS3153 Religious Persecution to Religious Liberty I (to 1600)
Cross-listed with HIST3201 and PHIL3201

Credits: 3
Prerequisites: 6 credits of Philosophy, HIST1100, or 6 credits of Humanities.
Exclusions: Unavailable to students with credit for RELS353, HIST353, or PHIL353.

This course examines ideas about religious intolerance, toleration and liberty, from antiquity to the sixteenth century. Students will read and discuss important texts. Historical, theological and philosophical perspectives will be introduced.

RELS3155 Religious Persecution to Religious Liberty II (from 1600)
Cross-listed with HIST3203 and PHIL3203

Credits: 3
Prerequisites: RELS3153.
Exclusions: Unavailable to students with credit for RELS355, HIST355 and PHIL355.

A continuation of RELS3153. The seventeenth century worked out ideas presented during the Reformation, while the Enlightenment launched an all-out assault on bastions of intolerance. Modern approaches, theological and philosophical, along with contemporary declarations, e.g. United Nations and Vatican II, will also be read.

RELS3701, 3703 Special Topics

Credits: 3,3

This course will introduce students to special topics not being covered by the ordinary course offerings. All "Special Topics" courses require the permission of the instructor.

RELS3901 Special Topics

Credits: 6

All "Special Topics" courses require the permission of the instructor.

SOCIOLOGY (SOCO)

See Anthropology/Sociology

SPANISH

SPAN1100 Introductory Spanish

Credits: 6
Exclusions: Unavailable to students with credit for SPAN100.

This course is designed for students with limited or no knowledge of the Spanish language. It covers the essentials of grammar and vocabulary, expression and comprehension, in basic language structures leading to an effective communication in both oral and written forms.

SPAN2100 Introductory Spanish

Credits: 6

Prerequisites: SPAN1100
Exclusions: Unavailable to students with credit for SPAN200.

This course is a comprehensive review of grammar, comprehension , and expression in oral and written form. Advanced grammar, conversation and composition, introduction to literature and assignments.

SPORTS AND HUMAN KINETICS (SPHK)

The Bachelor of Arts Community Studies, Sports Management option, prepares students for entrance into physical education programs as well as for careers in sport management and wellness management.

SPHK1100 Sports & Human Kinetics

Credits: 6
Exclusions: Unavailable to students with credit for SPHK100.

Theory, practice, and teaching of track and field, basketball, gymnastics, aquatics and soccer.

SPHK1101 Introduction to Outdoor Leadership

Credits: 3
Exclusions: Unavailable to students with credit for SPHK133.

This course utilizes practical experiences and includes detailed examination of the meaning, scope and values of outdoor leadership. Emphasis is given to historical and philosophical foundations of outdoor recreation and sport and the application of instructional procedures for providing appropriate leadership. Significant trends and existing outdoor programs are also examined.

SPHK1103 Cape Breton Sports Heritage

Credits: 3
Exclusions: Unavailable to students with credit for SPHK145.

An historical survey of sport and recreational activities as they have contributed to Cape Bretoners' sense of community.

SPHK2100 Sport Management

Credits: 6
Prerequisites: SPHK1100 or permission of instructor.
Exclusions: Unavailable to students with credit for SPHK200.

The structure, function and systems of sports and recreation in Canada. Includes recreation and leisure programming, market surveys and job specification/requirements.

SPHK2101 Adventure Programming for Sport and Recreation

Credits 3:
Prerequisites: SPHK1101 or permission of instructor.
Exclusions: Unavailable to students with credit for SPHK233.

This course teaches students how to plan, implement and evaluate adventure-based programs for sport and recreation. Students have opportunities for supervised field experience in group leadership. Topics include: experiential education, adventure theory, group dynamics and safety.

SPHK2107 Introduction to Sport Nutrition **Cross-listed with NUTR2107**

Credits: 3
Prerequisites: SPHK100/1100.

The six nutrient classes and their basic metabolism in healthy individuals are reviewed. These six nutrient classes and their metabolism are then explained in terms of training, competition and post-competition nutrition for maximising performance in specific sports covering the aerobic, anaerobic and interval spectrum (e.g. marathon running, sprinting, basketball, soccer, hockey). The interaction of diet and genetics in sports will be discussed. Finally, sources of information on sport nutrition will be noted and assessed for their reliability.

SPHK3100 Sports Medicine

Credits: 6
Prerequisites: SPHK1100 or permission of instructor.
Exclusions: Unavailable to students with credit for SPHK300.

The prevention and care of athletic injury.

SPHK3101 Facilities Design and Management

Credits: 3
Prerequisites: SPHK1100 or permission of instructor.
Exclusions: Unavailable to students with credit for SPHK3101.

The design and management of human kinetics sports/recreation facilities.

SPHK3103 Human Public Relations in Sport/Recreation

Credits: 3
Prerequisites: SPHK1100 or permission of instructor.
Exclusions: Unavailable to students with credit for SPHK313.

Career development and job search skills in sport/human kinetics.

SPHK3104 Advanced Coaching

Credits: 3
Prerequisites: SPHK1100 or permission of instructor.
Exclusions: Unavailable to students with credit for SPHK375.

An in-depth analysis of modern day coaching/training practices and their effect on individual athletes and team performance.

SPHK3105 Exercise and Personal Fitness

Credits: 3
Prerequisites: SPHK1100 or permission of instructor.
Exclusions: Unavailable to students with credit for SPHK377.

This course will cover the basic concepts related to exercise, fitness and health. Emphasis on personal health habits and attitudes as they influence chronic diseases and conditions. Personal hands-on experience with labs designed to challenge and stimulate counseling skills.

SPHK3700 Special Topics in Sports Management

Credits: 6
Prerequisites: 6 credits Intro to Sports and Human Kinetics.

Topics will change according to student and faculty interests.

SPHK3701, 3703 Special Topics in Sports Management

Credits: 3, 3
Prerequisites: 6 credits Intro to Sports & Human Kinetics.

Topics will change according to student and faculty interests.

SERVICES AND RESOURCES

OFFICE OF THE VICE-PRESIDENT STUDENT SERVICES AND REGISTRAR

Alexis Manley, MBA Ext. 1116
Vice-President Student Services, and Registrar

Financial Aid, Scholarships, Bursaries and Other Prizes

John Mayich, MBA, Ext. 1420
Manager of Student Financial Services

Financial Aid

Students with questions or who need help concerning securing financial aid, help with student loan applications, loan appeals and emergency loans and bursaries, should contact the Manager of Student Financial Services.

Scholarships, Bursaries and Other Prizes

Each year, Cape Breton University offers students a wide range of scholarships and bursaries. Prospective students coming directly from high school, who have applied for admission by March 1, with an academic average over 85%, will be considered for an entrance scholarship. Bursaries are distributed primarily on the basis of financial need during various times of the year. All awards are offered upon the recommendation of the Awards Committee. For further information, contact the Manager of Student Financial Services.

A comprehensive list of scholarships and bursaries, criteria, policies, applications and deadline dates is available at **www.cbu.ca/scholarships**.

Student Services

Norm Smith, MBA, Ext. 1225
Director

The departments in Student Services are:
Health (Max Bell Clinic), Students with Disabilities - Jennifer Keeping AccessAbility Centre, Personal Counselling Services, Chaplaincy, Student Life Centre, International Exchange Programs, International Student Advisors, Financial Aid and the Writing Centre.

The Learning Commons and Student Life Centre

The Learning Commons and Student Life Centre is a welcoming inviting space, providing students with ready access to a wide variety of relevant services, from academic writing to assistance with personal challenges. When students come to the Commons, they will be able to speak to someone who will help or guide them.

Services included within the Learning Commons and Student Life Centre are:

Jennifer Keeping AccessAbility Centre (JKAC)

Mel Clarke Ext. 1404

The JKAC is well equipped with a wide variety of services to assist students with disabilities. Services range from arranging tutorials to facilitating academic accommodations. JKAC also utilizes or has access to a wide selection of assistive technologies to provide additional support.

The Writing Centre

Tammy Byrne Ext. 1325

The Writing Centre is a free writing resource for all CBU students. The Centre's goal is to help students better understand university-level writing and improve their writing skills. Students can make an appointment to work one-on-one with a member of the Writing Centre's staff on any writing assignment at any stage of the writing process.

International Student Advisors

TBA Ext. 1671
Elaine Delaney Ext. 1986

The International Student Advisors are responsible for international student orientation, non-academic advisory services, registration of students for medical coverage, and co-ordination of special events related to the international students such as field trips and community orientation.

Academic and Career Advisors

Mike MacIsaac Ext. 1408
TBA Ext. 1278

Advisors provide academic advising to first year students and returning students who are considering the next phase of their academic lives. They will also provide advice on student programs and course preparation, employment development including securing volunteer placements for BACS students and student evaluation and placements and work terms for co-op students.

In addition, the Advisors will:

- Identify interests and skills in relation to career options;
- Reflect on work experiences and identify transferable skills;
- Assist with preparing cover letters, resumes and job search techniques.

Advisors are also responsible for the International Student Exchange Program. CBU participates in a number of international student exchange programs, which enable CBU students to attend university in another country for one or two terms at approximately the same tuition cost as attending CBU. Credits are fully transferable in most cases. Currently, CBU has direct exchange agreements with universities in the United Kingdom, France, Sweden and the United States. Through membership in the National Student Exchange, there are also linkages with approximately 200 universities and colleges throughout the world. There are a number of international internships or work-abroad opportunities as well.

Other services include:

- Caper Patrol;
- Student Oriented Solutions;
- Professional Societies and Pizza with a Professional.

Clinical Social Worker

Helen Boone Ext. 1873

The Clinical Social Worker provides a variety of services to help students achieve their goals and contribute to a positive university experience. Some of the issues will be dealt with on a one-to-one basis and involve interpersonal relationships, self-confidence, depression, procrastination, motivation and sexuality issues

The Clinical Social Worker will also work closely with other members of the Learning Commons with respect to financial issues as well as academic and career choices.

All contact is strictly confidential. The Clinical Social Worker is available for drop-in visits or students can make an appointment, by calling (902)563-1873 or (902) 563-1639, or by visiting the Learning Commons and Student Life Centre to find a convenient time

Office hours are Monday to Friday 9:00 a.m. to 12:00 p.m. and from 1:00 p.m. to 4:30 p.m.

HEALTH SERVICES

Dr. R. Sebastian, University Physician Ext 1349
Nancy Dingwall, Physiotherapist Ext 1275

The Campus Health Service is located in the Max Bell Centre in the Canada Games Complex. A nurse, physiotherapist and a physician are on staff. Confidential health services are provided to students, staff and faculty. It is preferred that those wishing to see the physician make appointments.
Health services offered include blood pressure clinics, health promotion screening, provision of educational materials (about STDs, birth control, smoking cessation and nutrition), nursing assessments and physiotherapy. In general, services are free of charge and provided on a walk-in basis.

CHAPLAINCY

Fr. Martin MacDougall Ext. 1173

The Chaplaincy Office at Cape Breton University enhances the lives of all students, faculty and staff and attempts to fulfill this mandate in an invitational and inclusive manner. The vision of Chaplaincy is rooted in a belief in the holistic development of persons, which includes their spiritual, social, emotional and educational growth. Several students are hired each year to develop and deliver specific programs. Programs offered by Chaplaincy include three annual retreats, a food bank, peer services, tutorial outreach program and Care Line for seniors. Spiritual direction, individual counseling and opportunities for friendship and advocacy are available through Chaplaincy.

ATHLETICS

John Ryan, BBA, Director Ext. 1657

CBU views athletics as an integral part of the student's education. This unit encompasses four major activities: varsity, recreational, club, and intramural athletics, which operate primarily in the Canada Games Complex and the Sullivan Field House. At present, CBU offers five varsity sports: men's and women's basketball; men's and women's soccer, and women's volleyball. A diversified schedule of programs and events for students, faculty, staff and the wider community is

also offered, including major sporting events, all-age athletic camps, tournaments and championships. Rugby (for men and women), baseball (for men), volleyball (men's) and gymnastics currently operate at the club level.

STUDENT SERVICE CENTRE

Arlene Mullan, MSc Ext. 1198
Director, Registration and Admissions

The Student Service Centre (SSC) is the academic record-keeping centre for the institution. It is responsible to create and protect student files, to record students' applications, admissions into programs, registrations, tuition payments, grades and credentials. The Academic Support Officer, located in the Learning Commons, will provide students with degree audits to enable them to track their progress in fulfilling programme requirements.

Admissions staff are available to help students seeking to enter CBU programs and to work with those seeking prior learning or transfer credit. SSC staff prepare the course and exam timetables and provide students with registration services. Representatives are available to accept students' payments, sign student loan documents, issue transcripts and record registrations during regular business hours.

CBU I.D. cards are issued by the Student Service Centre during normal office hours. Each student and faculty and staff member is encouraged to have an I.D. card made. The cards are used for library borrowing, meal plans and use of on-campus facilities.

The SSC serves students and the CBU community by responding to general inquires, administering the academic regulations, co-ordinating updates to the academic calendar and overseeing the annual convocation ceremonies.

STUDENTS' UNION

Welcome to CBU from the Cape Breton University Students' Union (CBUSU). It is very important for you to remember that YOU are the Students' Union.

The CBUSU was formed in 1985. For much of its early history, CBU administration played a central role. In the beginning, the Students' Union primarily focused on entertainment and sponsoring events, spending less time on activism and student advocacy. Over the years, the CBUSU branched out, obtained autonomy from the administration and embarked on a path of providing both services and advocacy for and on behalf of students. In November 2000, the Students' Union received its own Act, passed by the Nova Scotia House of Assembly.

Purpose of the Students' Union

We are a lobby and advocacy organization. Your Union represents students to the University and all levels of government. We advocate and protect student rights, particularly with respect to academics. We also lobby provincial and federal governments for increased funding, tuition reductions and improved access to education.

Services of Your Students' Union

CBU Students' Union provides services for students by students. The Students' Union further supports its members by being the largest student employer on campus.

The following is a list of the services the Students' Union offers:

- Tutoring Services
- Caper Times newspaper
- Grad Week Activities
- Student Societies

SERVICES AND RESOURCES

- Women's Centre
- Sexual Diversity Centre
- Handbook
- Caper Convenience Store
- Frosh Week
- Health Plan
- Legal Counseling
- Emergency Bursary Fund
- Volunteer Services
- Bus Passes
- Community Outreach/Goodwill (ex: Shinerama)
- Campus Pub (The Pit) and Socials
- Job Search Assistance
- Campus Events and Intramurals
- Student Life Centre
- Various Theme Weeks

For a thorough description of our services to you, please consult your Students' Union Member Handbook. Visit the Students' Union office, visit the website at cbusu.com or check out CaperZone.

Student Representative Council

It would be unfair and virtually impossible for the executive of the Students' Union to make all of the major decisions faced by the CBUSU. The executive makes the day-to day decisions. Major decisions are made by the Student Representative Council (SRC). This group is elected by students, in a general election, to speak on their behalf. Through the SRC, decisions are made efficiently and fairly to benefit the entire student community.

We encourage people to consider running for office.

Your Rights, Your Expectations

As a CBU student, you have certain rights and your Union has certain obligations to you. Here, briefly, are some highlights of what we mean:

- You have the right to expect the Students' Union to be accountable to you.
- You have the right to access any information, including financial, from your Union.
- You have a right to know where your Students' Union dues are allocated and spent.
- You have a right to expect that those student leaders who are elected are fulfilling their responsibilities.
- You have a right to get involved and be part of the organization that represents you.
- You have a right to expect that the Students' Union plays a healthy and positive role in our community.
- You have a right to access all the services of the Students' Union.
- You have a right to run for any elected position of the Students' Union.
- You have a right to apply for any available job with your Union.
- And finally, you have a right to disagree with your Union, although we hope to work hard enough to maintain your support and confidence.

Societies

An important function of the Students' Union is to provide societies with funding. Societies provide students with opportunities, educational experience, recreation, national recognition and increased student morale. Your Students' Union encourages new groups to form and grow. Societies are dynamic, new ones form, old ones disband, others are occasionally inactive.

Our list of societies changes constantly. Visit the Students' Union website for a complete listing.

SERVICES AND RESOURCES

For more information on any of the services, call (902) 563-1192 or go to www.cbusu.com.

LIBRARY

Circulation Ext.1320
Reference Services Ext. 1387

Cape Breton University Library provides information resources and instructional support for teaching, research and scholarship. This support is manifested in the Library's reputation of offering top-notch service and instruction to students and faculty as well as in the quality of its special collections, which include the Centre for International Studies Collection; the Pearson Peacekeeping Collection; and the Khattar Collection. As well, the CBU Library holds more than a quarter of a million books on site; approximately 30,000 electronic books that can be used on campus and off-campus; and immediate access, on campus and off campus, to approximately 25,000 journals; a just-in-time delivery system for materials the Library doesn't hold; and lots of space for group work or solitary study.

The CBU Library is in the Campus Centre section of the CBU campus. For additional information on CBU Library holdings and services, call (902) 563-1320 or www.cbu.ca/library.

GENERAL SERVICES AND RESOURCES

Art Gallery

Laura Schneider Ext. 1342

The CBU Art Gallery is the first and only public art gallery on Cape Breton Island. Located 12 kilometres east of downtown Sydney, it serves as a cultural centre for the Island. The Gallery acquires and presents to the public, the finest works of art, with particular emphasis on contemporary Canadian works and the artistic traditions of Cape Breton Island. In its role as custodian of an extensive permanent collection, the Gallery offers educational and research facilities to broaden and enhance the knowledge of contemporary and historical accomplishments in visual art, with particular emphasis on the development and understanding of Canadian art.

Contact the Gallery at: (902) 563-1342 or www.cbu.ca/artgallery

Banking

A banking machine is available to the CBU community in the lobby of Campus Centre.

Boardmore Playhouse

Todd Hiscock, MFA, Ext. 1351
Manager
The Boardmore Playhouse is the centre for theatre arts at CBU. The Playhouse is fully equipped for theatrical and live music productions and houses state-of-the-art lighting and sound systems. The seating capacity is 337. The CBU Dramagroup is open to students and community members.

Bus Service

Cape Breton Transit (902)539-8124

Cape Breton Transit provides daily bus service to and from the University. Bus shelters are located beside the Library and beside the Canada Games Complex.

Caper Radio Inc.

Office Ext. 1475

Caper Radio Inc. became autonomous from the Students' Union in the spring of 1998 and has won the National Campus/Community Radio Association (NCRA) award for achievement as a small radio station. From its location in the Students' Union, it broadcasts using the latest in sound equipment technology. Caper Radio Inc. relies on volunteer DJs who are members of CBU and the local communities and who work under the supervision of the executive staff. It is the hope of all the staff that students will take part in the CBU Radio experience and that Caper Radio Inc. will become a successful FM station in the very near future. For more information go to www.caperradio.com**.**

Cape Breton University Press

Mike R. Hunter, MA,
Editor-in-Chief Ext. 1955

Established in 1974, Cape Breton University Press, Inc. publishes works of historical and cultural importance, enhancing knowledge of Cape Breton and contributing to its place in the larger regional, national and international community. CBU Press is a leading publisher of works related to community economic development (CED), read by scholars and activists around the world, award winning fiction and illustrated intercultural books for children and books depicting and analyzing Cape Breton's rich history and cultures.

Child Care

Early Childhood Centre Ext. 1811

The CBU Early Childhood Centre offers on-site, quality child care services for the children of students, staff and faculty.

Distance Education

Cape Breton University is committed to meeting the ever-changing educational needs of students. The distance education program has been developed to serve learners who are unable to attend on-campus courses. CBU provides the same academic quality in distance courses as in courses taught on campus. Distance learning does, however, require a high level of self-motivation and commitment from students. The distance education program also serves students studying on-campus who may choose to combine distance and on-campus delivery in developing their course schedules.

The CBU distance education program provides flexibility and choice to adult learners. A number of full degree, diploma and certificate programs are available. Courses are continually being developed for distance delivery, so be sure to check www.cbu.ca/distance for the most up-to-date course and program offerings.

The CBU distance education program is using the resources of the World Wide Web (www) to provide an online classroom experience for distance learners. Classes delivered this way use a number of resources in the development of the virtual classroom. Online classrooms give learners access to course material and notes, related web links and most importantly, opportunities for collaboration, discussion and sharing of information. Through online forums, students are able to communicate with each other as well as with the professor at any time. The online classroom also provides a space for students and professors who wish to have a real-time discussion in the classroom chat area. Students who choose to enroll in www courses must have regular access to a computer with Internet connection and a recent version of Netscape or Internet Explorer.

CBU participates as a shareholder in Canadian Virtual University, which is a consortium of Canada's leading universities in distance and online learning.

See academic regulations. Contact the Distance Education office for information, or go to www.cbu.ca/distance.

Food Service

Ext. 1172

The campus cafeteria provides full course meals and fast food service. Transactions in the cafeteria are in cash, debit, or on a meal plan basis.

September to April hours:
Monday-Thursday : 7:30 a.m. to 9 p.m.
Friday : 7:30 a.m. to 6 p.m.
Saturday : 9 a.m. to 6 p.m.
Sunday : 9 a.m. to 6 p.m.

Limited service is provided between May and August.

Harriss Hall
It is a great new place for students to enjoy their meal comfortably in the new dining hall. It is an all-you-care-to eat program. There are cash, debit and credit payment options to paying visitors.

Hours of operation Sept. to April Mon. - Thurs: 7:30 a.m. - 8pm, Friday: 7:30 a.m .- 6:30 p.m., Saturday: 10.a.m. - 6:30.p.m., Sunday: 10:00 a.m. - 8:00.p.m.

Lost and Found

Security Ext. 1133

The Commissionaires make note of items lost and receives items found. Items are held for three months. The Commissionaires' Office is located on the first floor of Campus Centre.

Parking

Security Ext. 1133

CBU Parking Regulations

1. All vehicles parked on the CBU campus must either display a valid permit or use a parking meter. Daily permits can be purchased at any of the five dispensers on campus. Term parking passes can be purchased at the Bookstore.
2. CBU parking permits are not valid at parking meters. Vehicles parked in reserved parking spots must display a valid Reserved Parking permit.
3. CBU assumes no responsibility for damage to, or theft of, any vehicle and/or its contents. CBU does not assume responsibility for injury or accident however caused.
4. All violations of CBU parking regulations, including meter violations, may result in a Cape Breton Regional Police Service ticket and towing of the vehicle at the owner's risk and expense.
5. Parking regulations are in force 24 hours a day, seven days a week.

RESEARCH AND GRADUATE STUDIES

DALE KEEFE, PHD, DEAN OF RESEARCH (EXT. 1843)

OFFICE OF RESEARCH AND GRADUATE STUDIES

Jodi McDavid, Research Support Officer	Ext. 1107
Sander Taylor, Research Officer	Ext. 1338
Brenda LeLoup, Assistant to the Dean	Ext. 1304
Sarah Conrod, Industry Liason Officer	Ext. 1842

The mandate of the Research Office is to encourage, support and promote individuals engaged in research at CBU. It fulfills its mandate through the provision of grant support and the promotion of ongoing research. The office strives to encourage a culture of research among faculty, students, staff and community members. It does this through contributing to research policies, internal grants and facilitating communication between researchers and funding agencies. The office acts as a liaison with local, national and international funding agencies, both for individuals and the institution as a whole. The office is also the administrative home of CBU's institutes and centres and maintains a role in the support of senior scholars and professors emeriti.

RESEARCH INSTITUTES AND CENTRES

Canada Research Chair in Intangible Cultural Heritage

Richard MacKinnon, PhD Ext. 1284

Dr. Richard MacKinnon's Chair in Intangible Cultural Heritage involves research that studies, records, interprets and shares with the public, globally significant, endangered, traditional cultural expressions of Cape Breton Island. With significant economic changes in communities throughout the world, many cultural traditions are now at risk and should be understood and preserved for future generations.

Dr. MacKinnon's research is focused around four key areas of study: oral traditions and expressions; performing arts; vernacular architecture and material culture and the establishment of a Centre for Cape Breton Studies. His research will lead to publications and inventories of endangered traditions and the development of new media tools and policies for safeguarding threatened traditions.

Cape Breton is ideally situated for Dr. MacKinnon's research project. There are many cultural groups living here including Scottish, Irish, English Loyalists, Acadian French, Ukrainian, Italian, Polish, Czechoslovakian, African-Canadian and Chinese. It is also home to five Aboriginal First Nations communities. The Island is a potential laboratory for studying innovative ways to protect, preserve and educate people about intangible cultural heritage.

Canada Research Chair in Integrative Science

Cheryl Bartlett, PhD Ext. 1624

Dr. Bartlett was hired at Cape Breton University in 1989 and in her early years at CBU, taught biology and conducted research in wildlife parasitology and diseases, with a particular focus on avian filarioid nematodes; this research was funded by NSERC. In the mid-1990's her research shifted to Integrative Science. Dr. Bartlett's research was considered unique globally, synthesizing scientific knowledge from Aboriginal sources and orthodox Western concepts.

"Integrative Science" is an initiative to "bring together knowledge and ways of knowing" from Indigenous and Western (mainstream) scientific world views, for the purposes of science education, research, applications and outreach to Aboriginal youth and communities. With the resources of the Canada Research Chair and the guidance of Mi'kmaq

RESEARCH

Elders, Dr. Bartlett is pioneering praxis-based research informed by action, participatory and integrative methodologies within a co-learning journey of researchers and community. The research program serves an overall, two-fold, long-term goal: to help Aboriginal individuals and Indigenous knowledge become increasingly and actively involved in science in the 21st century and to help mainstream science better engage with Indigenous knowledge and ways of knowing.

In addition to the Canada Research Chairs program, Dr. Bartlett's research in Integrative Science has been enabled by funding from SSHRC (Social Sciences and Humanities Research Council of Canada), CIHR - IAPH (Canadian Institutes of Health Research – Institute of Aboriginal Peoples' Health), NSERC (Natural Sciences and Engineering Research Council of Canada), CFI (Canadian Foundation for Innovation) and NSRIT (Nova Scotia Research and Innovation Trust), as well as other organizations such as the RCMP, Mounted Police Foundation, IWK Health Centre Foundation, Nova Scotia Health Research Foundation, Katlin Mi'kmaw Healing Cultural Centre and Sable Offshore Energy.

The Purdy Crawford Chair in Aboriginal Business Studies

Keith G. Brown, PhD Ext. 1859

The Purdy Crawford Chair in Aboriginal Business Studies was established to focus its work in :

- Research on what drives success in Aboriginal business
- An examination of the Membertou Model;
- An examination of best business practices in Unama'ki;
- An examination of best business practices in Western Canada First Nations;
- The national recruitment of students to the study of business in university;
- The enhancement of the business curriculum both at CBU and at other Canadian universities through the provision of teaching materials, and
- The coordination of business development advice.

Summary of Proposed Research:
The Membertou Model has embraced entrepreneurism, public and private sector investment and joint ventures, while recognizing the need to promote and protect cultural heritage. The Unama'ki successes, particularly in environmental remediation and movement into energy projects will be examined for best practices, strategic development and strategic positioning

The Viola Desmond Chair in Social Justice

Graham Reynolds, PhD Ext. 1145

The Viola Desmond Chair in Social Justice was founded in November 2010, in honor of Viola Desmond, Canada's civil rights icon, who challenged the practice of racial segregation in Nova Scotia when she refused to leave her seat in a white's only section of the Roseland Theatre in New Glasgow in 1946.

The Viola Desmond Chair in Social Justice builds on the strengths of CBU and its relationship to the wider community. Since its inception, CBU has extended the opportunity for obtaining a university education to all those who seek it. Perhaps no one symbolizes this vision better than Wanda Robson, the youngest sister of Viola Desmond. In 2003, Wanda, at the age of 73, entered CBU in order to pursue her life-long dream of obtaining a university education and in 2007, Wanda graduated with a Bachelor of Arts degree.

As the first Viola Desmond Chair in Social Justice, Dr. Graham Reynolds, Professor of History, envisions the Chair as an instrument to promote education, both as a means of self-improvement and in relation to educating Canadians about the broader issues of social justice. Dr. Reynolds' research focuses on developing educational resources for teachers and in raising awareness about social justice issues through research, publications and public events. As Chair, Dr. Reynolds is also spearheading the establishment of the Viola Desmond/Wanda Robson Student Scholarship and Bursary Award.

University Chair in Marine Ecosystem Research

Bruce Hatcher, PhD Ext. 1943

RESEARCH

Cape Breton, surrounded by the North Atlantic and Gulf of St. Lawrence, is an island ecosystem that encloses its own "ocean", all of us live in the coastal zone, even if we do not live "the life aquatic"! As the Island's only university, positioned between an old ocean and a young sea, Cape Breton University recognizes the significance of marine ecosystems to the livelihoods, well-being, culture and natural heritage of the people of Cape Breton. CBU embraces the mandate to support research and development for its local clientele and the maritime community at large. Since 2004, a coordinated set of initiatives has been used to re-invigorate and expand CBU's capacity to meet the challenge, in a fashion that respects the integrity of marine and coastal ecosystems, and is attuned to the needs of the communities embedded within them. The creation of a targeted research chair is a key part of the strategy.

Dr. Hatcher is Cape Breton University's Chair in Marine Ecosystem Research, and Director of the Bras d'Or Institute. Educated as a benthic ecologist and oceanographer in the United States, Canada and Australia, he has 30 years experience in research and development in the public and private sectors, having worked in 25 countries and logging more than 600 days at sea and 1,600 hours underwater. His primary expertise lies in the application of ecological theory and empirical analyses, to the better understanding and prediction of marine ecosystem structure and function. With a significant endowment of research equipment and networked expertise, his program builds capacity for the use of advanced oceanographic technologies and SCUBA diving in support of research and training.

Dr. Hatcher's research program focuses on the use of synoptic ecological tools (especially remote sensing and numerical modeling) for biodiversity conservation and management decision support in coastal ecosystems of tropical and cold oceans. The Bras d'Or estuary serves as a test bed for the development of interdisciplinary research, blending the physical, biological and social sciences. Partnerships with faculty here and at other universities and technology companies, leverage opportunities for the University to contribute to local initiatives in ecologically and economically sustainable use of marine resources and global priorities in marine ecosystem-based management.

Industrial Research Chair in Mine Water Remediation and Management

Dr. habil. Christian Wolkersdorfer Ext. 1285

Dr. Christian Wolkersdorfer conducted and initiated several mine water remediation projects in Canada, Germany, Austria, Slovenia, Brazil, UK and Turkey. In addition, he was sub-project leader for the EU projects ERMITE and PIRAMID. Cooperation with other universities, the industry and public agencies are key issues in his multi-disciplinary projects. His key research areas are hydrogeochemistry, mine water tracer tests and mine water geothermal applications.

His research will focus on and lead the mine water remediation and mine water management applications with a hydrogeochemical, biological and modeling bias. Other projects will be based on his experience in geothermal energy research and due to the fact that one of the world's first mine water geothermal projects is located in Nova Scotia, geothermal use of mine water will be a matter of research. The Chair holder will focus on the B1 mine pool in the Sydney Coal Field, which is a system of interconnected, flooded mines, to investigate the geochemistry and use the mine water as the energy source.

Dr. Wolkersdorfer's research team will determine the scale and will model the dynamics of the geothermal energy stored in mine water now flooding the B1 mine pool. Over time, this work will extend to other retired mine workings within the Sydney Coal Field. It is estimated that the entire system contains as much as one billion cubic meters of mine water. Dr. Wolkersdorfer expects that his research initiatives will lead to the design and development of a series of specialized detection and monitoring devices that will make it possible to efficiently and accurately characterize many of the salient features of abandoned mine workings. These new analytical tools will have wide application in modelling mine workings on any site.

Mine water is heated by energy drawn from the surrounding rock and other geological material comprising and proximal to the seam. By studying these flooded mine workings, Dr. Wolkersdorfer's team will be able to determine the rate of heat recovery that an open or closed loop hydrothermal system will exhibit. Modelling the system helps to determine a rate of energy extraction that will ensure a sustainable operation and, based on this information, it will determine the scale of development that is feasible. In addition, the modelling will help to understand the overall flow regime in the mine workings.

CENTRES

Abraham Centre for Religion and Society

The Abraham Centre for Religion and Society was formed at CBU by a small group of faculty and community religious leaders. The activities of the Centre draw on the rich traditions of Judaism, Christianity and Islam. Through research and public education events, the goal of the Centre is to critically apply the values and insights of these traditions to problems facing contemporary society.

Cape Breton Health Research Centre

Benita Manzine, Administrative Assistant Ext. 1833

The Centre is a shared project between the Cape Breton District Health Authority and CBU. The Centre is based at CBU in the School of Graduate and Professional Studies and is designed to promote and support local health research capacity.

Centre for Cape Breton Studies (CCBS)

Richard MacKinnon, PhD, Director Ext. 1248

Established as part of the Tier 1 Canada Research Chair awarded to Dr. Richard MacKinnon, the Centre for Cape Breton Studies is committed to promoting and preserving intangible cultural heritage. Unique in Atlantic Canada, the Centre is a valuable addition to Cape Breton University. The Centre for Cape Breton Studies supports visiting scholars, research, workshops and programmes of study. The Centre for Cape Breton Studies houses both the Rotary Music Performance and Analysis Room, and a state of the art digitization lab. These resources are used to engage in ethnographic and performance research, provide a venue for the dissemination of that research and prepare young scholars for graduate research in ethnomusicology, folklore and intangible cultural heritage. The Centre includes seminar and research space for the Folklore and Ethnomusicology programmes as well as offices for faculty and researchers. Additionally, the Centre is home to the academic journal *Material Culture Review*, which is distributed to research institutes, museums, libraries and individual subscribers in more than twenty countries worldwide.

Centre for International Studies (CIS)

Gary Leech, MA Ext. 1169

The CIS is responsible for promoting internationalization and global awareness at CBU and in the community. The Centre coordinates educational activities on the themes of development, the environment, human rights, social justice and peace. In cooperation with local and international NGOs and educational institutions, it encourages internationalization of the curriculum, research and publications and sponsors workshops, seminars and conferences. The Centre also coordinates international projects involving CBU faculty and students.

Phone: (902) 563-1169
Email: cis@cbu.ca or gary_leech@cbu.ca

Centre for Natural History

David McCorquodale, PhD, Director Ext. 1260

The Centre develops and promotes research on the natural history and biodiversity of Cape Breton Island and provides a base for students and researchers studying Cape Breton natural history. Currently, the major focus of activity is the CBU Herbarium, with its valuable collection of vascular plants, lichens and mosses.

Children's Rights Centre

Katherine Covell, PhD, Psychology, Director Ext. 1413
R. Brian Howe, PhD, Political Science, Director Ext. 1214

The Centre, founded in 1995, specializes in teaching and researching the UN Convention on the Rights of the Child. Its primary research focus is on children's rights education in the school system and at the University. Its primary advocacy focus is on monitoring Canada's implementation of children's rights in law, policy and practice. The centre works locally, nationally and internationally, consulting and collaborating with academics, educators, government personnel and advocacy groups such as Save the Children and UNICEF.

International Centre for Emergency Management Studies (ICEMS)

Mr. Ed Grimm, MBA, Director Ext. 1221

The ICEMS is devoted to the high quality applied examination of the principles and practices of integrated and cooperative emergency management in an international context. The aim of ICEMS is to foster and facilitate international cooperation and capacity building; to contribute to national government and non-government objectives and capabilities; to support CBU's emergency management educational programs; and to develop an accessible collection of relevant topic material.

Mi'kmaq Resource Centre (MRC)

Diane Chisholm, BA, Coordinator Ext. 1660

The Mi'kmaq Resource Centre is a repository of documents related to Mi'kmaq history, culture and language. The Centre houses books, doctoral theses, articles, reports, pamphlets and academic papers, as well as video and audio materials. The MRC's holdings also include the now defunct Mic Mac News, publications of the Royal Commission on Aboriginal Peoples, an extensive array of materials on Donald Marshall Jr.'s experiences in the justice system and papers related to Aboriginal issues donated by private sources.

The MRC has a small, though select, collection of items representing Mi'kmaq material culture over the past hundred years: examples of quill and beadwork, crooked knives, the waltes game, items from the early 20th century tourist trade and a variety of baskets. Additionally, the Centre has a display of stone artifacts and projectile points on loan from the Nova Scotia Museum. The oval room may be used by groups to give presentations or show videos related to Mi'kmaq culture.

The Mi'kmaq Resource Centre welcomes students, educators, researchers and anyone with an interest in Mi'kmaki to use the facilities and extensive collection of materials. Research assistance is available.

The Mi'kmaq Resource Centre is located in the Beaton Institute in room CE 268.

L'nui'sultimkeweyo'kom Mi'kmaq Language Lab

Stephanie Inglis, PhD, Director Ext. 1201; Lab: Ext. 1197

The Mi'kmaw Language Lab is the primary centre of research activity at Unama'ki College. The Lab has partnerships with numerous Mi'kmaw educational authorities as well as academic institutions and is engaged in several long term projects: Mi'kmaw pain words; the on-line talking Mi'kmaw dictionary as well as the on-line Mi'kmaw Language Center known as JILAPTOQ www.jilaptoq.ca. The Language Lab engages and mentors Mi'kmaw undergraduate student researchers who are interested in working on Mi'kmaw language projects. The Language Lab also attracts linguistic graduate students from other universities and academics from North America interested in linguistic work on Algonquian languages.

Philosophy and Religion Centre (PAR)

Kenneth A. Bryson, PhD, Director Ext. 1938

The Philosophy and Religion Centre (PAR) co-sponsors the Philosophy and Religion series of Rodopi's Value Inquiry Book Series (VIBS). Rodopi is an international publisher of scholarly books and the series is co-sponsored by 35 centres worldwide. PAR is dedicated to a rigorous examination of religious attitudes, values and beliefs. The Centre's Director is a VIBS Senior Editor, responsible for the publication of scholarly research in a wide variety of philosophical approaches to general and specific topics arising from the whole spectrum of religious traditions.

Small Business Development Centre (SBDC)

Mary Jane Morrison, MBA, Director Ext. 1257

The Small Business Development Centre is a centre that provides services for small and medium size enterprises. Its mandate is threefold; business counselling, training and networking. Business counselling services are available to new and existing businesses; for start-up and expansion, and include assistance in business plan preparation, secondary market research and other areas of service provision. Training and networking allow skill improvement and professional development as well as the opportunity to meet both business owners and small business service providers. It will help you find success in the business world!

INSTITUTES

Alexander Graham Bell Institute

Sarah Conrod, BSc, MEd Ext. 1842

The Alexander Graham Bell Institute (The Bell Institute) of Cape Breton University was incorporated in 1977. Over the years, the Bell Institute has achieved several notable milestones including consolidating photographs, personal notes and technical work of Alexander Graham Bell; completing a comprehensive index of these holdings and conducting scholarly studies of these materials. The Bell Institute is dedicated to the memory of Dr. Alexander Graham Bell and his work as well as the development of new applied research that is motivated by a desire to continue his high standard of principle, his practical spirit and his social conscience.

Beaton Institute

Catherine Arseneau, MA, Manager Ext. 1326

The Beaton Institute of Cape Breton University is a regional archive and research centre mandated to collect, preserve and make accessible the social, economic, political and cultural history of Cape Breton Island. An integral part of the historical and cultural research community, the Beaton Institute is available for use by researchers, students, media and the general public.

The Beaton Institute houses archival material that includes:

- 3,000 manuscript collections
- 70,000 images
- 2,500 sound recordings
- 1,500 video cassettes and film reels
- 1,500 reference maps
- 2,000 maps and plans

The Beaton Institute actively pursues and supports research that contributes to the understanding and development of Cape Breton's unique cultural heritage. The main phone number is (902) 563-1329.

Bras d'Or Institute for Ecosystem Research

Bruce G. Hatcher, PhD, Director Ext. 1943

Recognizing the importance of both the surrounding and inland sea to the viability of Cape Breton ecosystems and society, CBU has re-established the Bras d'Or Institute, founded over 30 years ago. The vision is the true sustenance of the Cape Breton ecosystem, including its people; and the mission is to bring the resources of the University to the needs of the community. The research activities of the Institute are focused on how best to operationalize ecosystem-based management of human activities within the maritime communities of Cape Breton. Current projects deal with land-ocean interactions in the coastal zone of Cape Breton, sustainable development of emerging marine fisheries and measuring the health of the Bras d'Or estuary and its watershed. The Institute partners widely with all levels of government, NGOs and the private sector. Diverse opportunities for interdisciplinary research are provided to faculty and students.

Community Economic Development (CED) Institute

George Karaphillis,BSc, Med, Director Ext. 1467

The Community Economic Development (CED) Institute, through its Advisory Board of CBU faculty and community members, is a vehicle for CBU to promote, encourage and support community economic development research and initiatives within a participatory framework. The CED Institute has established a national and international presence, through a network of research associates-individuals skilled in community development, who serve as advisors and enablers in developing programs to meet the differing needs of diverse communities. The CED Institute offers community economic development training, policy advice, and evaluation; organization and community strategic planning; and information about community consultative processes. One vital function of the CED Institute is promoting the exchange of information among those active in the field. To this end, the Institute provides workshops, conferences, newsletters and multimedia presentations.

Institute for the Development of Energy and Sustainability

Lucia MacIsaac, PEng, Director Ext. 1860

The Institute for the Development of Energy and Sustainability began in response to the exploration of the region's offshore petroleum industry. The Institute provides dedicated infrastructure for research and training for the petroleum sector, which include the creation of academic programs and contributions to the business community and has established Multiple-Use Laboratories with assistance from industry partners: Shell Canada Process Operations Lab, the Duke Energy Fluid Flow and Measurement Lab and the Petroleum Simulation Lab. The Petroleum Simulation Lab is the main learning facility for the petroleum students. It houses 18 Dell Optiplex Pentium III work stations and one instructor teaching command centre.

The Institute is involved in research and development and commercialization activities with industry partners and other educational institutions. It is the contact point for the SSHRC Oceans Management Initiative led by Simon Fraser University. CBU researchers contribute to the Oceans Research Network - linking science with local knowledge and building capacity for decision-making.

Institute for Integrative Science and Health (IISH)

Cheryl Bartlett, PhD, Director Ext. 1624

The IISH at CBU is devoted to assisting those involved in the pursuit of "two-eyed seeing", which refers to the mindful effort to see from our one eye with the strengths of the Indigenous knowledge and ways of knowing and from our other eye with the strengths of the Western (or Eurocentric or conventional) scientific knowledge and ways of knowing. The goal is to use them together in contemporary projects and community endeavours.

International Institute for Tourism Development

Wendy Wadden, LLB, Director Ext. 1229

Cape Breton University has been serving the human resource needs of the tourism industry since 1974 through its well-respected Diploma in Hospitality, BBA with a concentration in Tourism Marketing Management (1996) and most recently, a Baccalaureate degree in Hospitality and Tourism Management (2004). As CBU moves forward with its growth strategy, the time has come to take a more active role in providing additional services to industry stakeholders. To this end, the International Institute for Tourism Development was created in November 2005.

The International Institute for Tourism Development, through its Advisory Board of Cape Breton University faculty, research fellows and industry stakeholders, will be a vehicle for CBU to promote, encourage and support tourism development in Cape Breton and beyond.

One vital function of the International Institute for Tourism Development will be to promote the exchange of information among those active in the field through activities such as workshops, conferences, special events, newsletters and web site/page links.

The International Institute for Tourism Development is involved in the following:

- Advancing the quality of tourism services/facilities and sustainable tourism development/delivery with information, training and best practices;
- Supporting diversification and enhanced quality of sustainable nature-based tourism adventures and experiences by traditional and non-traditional tourism experience providers;
- Building capacity of Atlantic Canada's tourism operators to reach new international and domestic markets.

Advisory Board
Cape Breton University Faculty and Staff
Industry Stakeholders, National and International
Research fellows, National and International

Louisbourg Institute

Andrew Parnaby, PhD, Co-Chair Ext. 1286
Graham Reynolds, PhD, Co-Chair Ext. 1145

Created in 1980, by Cape Breton University and Fortress of Louisbourg National Historic Site of Canada, the Louisbourg Institute brings together professors, researchers, teachers and students who share a common passion for education, research and the Fortress of Louisbourg - home to one of North America's largest 18th-century historical reconstructions and one of its richest archeological records. Through a wide range of collaborative projects, the Institute makes the wonders of the Fortress Louisbourg accessible to the widest possible audience, encourages innovation and excellence in teaching and research and enhances the learning experiences of students of all ages.

Small and Medium-Sized Enterprise Institute (SMEI)

Harvey Johnstone, PhD, Director Ext. 1178

The SMEI provides faculty and students with a base from which research into the SME sector can be undertaken. Through the Institute, CBU students obtain direct experience in business operations and the entrepreneurial process and culture. The Institute develops an innovative repository of 'best practices' of fast growth firms and markets business support services based on this information for clients located inside and outside the Atlantic region. The SMEI builds on CBU's community-focused mission statement and innovative educational model. It supports ECBC/ACOA's strategic initiatives in SME development. The Institute acts as a linchpin, to work effectively with other internal units such as the CED Institute and the Institute of Small Business Counsellors. As well, the Institute develops partnerships with existing

external bodies such as the YMCA Enterprise Centre. Partnering with those initiating technological development, CBU's SMEI offers a different focus from the existing five University Development Centres in Nova Scotia.

Tompkins Institute for Human Values and Technology

Edwin MacLellan, PhD, Director Ext. 1147

The Tompkins Institute investigates the impact of technological change on society in general and, more particularly, on the Cape Breton community. In a technology driven society, the Institute has sought new formulas that conciliate business techniques with human values.

ADMINISTRATIVE OFFICES AND SERVICES

PRESIDENT'S OFFICE

H. John Harker, LLD Ext. 1120
President and Vice-Chancellor

The President is the Chief Executive Officer and Academic Head of the University and provides leadership for all academic, administrative, financial and physical programs, in keeping with the University's mandate. The President is responsible for implementing all policies approved by the Board of Governors as well as other pertinent legislation and regulations. The President also represents the University to governments, academic agencies and other organizations.

Gordon M. MacInnis, CA Ext. 1128
Vice-President, Finance and Operations

Reporting to the President and a member of his Executive Team, the Vice-President, Finance and Operations is responsible for all non-academic operations of the University. Working in cooperation with Senior Management Group members, the Vice-President, Finance and Operations provides leadership on administrative and financial matters of concern to the University. The Vice-President, Finance and Operations, in the capacity of treasurer of the institution, serves as a member of the University's Board of Governors.

Robert C. Bailey, Ph.D. Ext. 1980
Vice-President, Academic and Provost

Reporting to the President, the Vice-President, Academic & Provost is responsible for providing senior academic and research leadership for CBU faculty and staff, including the development and delivery of innovative academic programming, strategic planning, enrolment management and the ongoing review and renewal of academic programs. The Vice-President ensures the highest quality educational experience by working with the Deans and other administrators to promote the highest standards of excellence in teaching and research. As a member of the Executive Team, the Vice-President, Academic and Provost collaborates with the other Vice-Presidents to foster strategic planning and plan allocations for budget, technology, and facilities

Keith Brown, PhD Ext. 1859
Vice-President, External Relations

Reporting to the President, the Vice-President, External Relations is responsible for Cape Breton University's Fundraising and Alumni Relations, Communications and Public Relations, Conference Services, Government Relations, International Programs and Partnerships and LearnCorp International. The Vice-President, External Relations is a member of the Executive Team as well as Senior Management Group.

Alexis Manley, MBA Ext. 1116
Vice-President Student Services, and Registrar

Reporting to the President, the Vice-President Student Services, and Registrar is responsible for Student Services, the Student Service Centre and Athletics. The Vice-President Student Services, and Registrar is a member of the Executive Team and provides leadership for all aspects of services to students, including admission and registration policies, student records, awards, convocation, orientation, financial aid and health services.

Administrative Secretary Ext. 1900

Responsible for coordinating and facilitating the activities of the Board of Governors. This office is the custodian of the official bylaws, minutes and governance files of Cape Breton University.

TEACHING AND LEARNING SUPPORT

Eileen Smith-Piovesan, MA, MEd (IT) Ext. 1459
Co-ordinator, Quality Assurance/Teaching and Learning
Office CE330 (President's Office)

The Coordinator, provides guidance and support to all teaching staff through activities such as online teaching tips, workshops, information sessions, round table discussions, assistance with teaching dossier preparation and peer review of teaching. By these means, the Coordinator and Faculty Liaison help teaching staff to develop more effective approaches to teaching

COMMUNICATIONS AND PUBLIC RELATIONS

Irene Khattar, BA Ext. 1896
Director

The services of Communications and Public Relations are available to the University community for the purpose of maintaining and enhancing CBU's image and profile internally and externally, in partnership with faculty, students, alumni and friends of the institution.

Staff provide communications counsel, media relations, web communications, graphic design and production as well as event management planning and support. Their role is to communicate the activities, operations, issues and achievements of the university community. Communications and Public Relations staff are located upstairs in the Student, Culture and Heritage Building (CE 337).

Conference Services

CBU Conference Services offers a full spectrum of professional event management services on campus.

- **Internal campus community**
  Conference Services is responsible for the coordinated communication and booking of campus facilities and is also able to provide professional advice and coordination services for hosting conferences and special events on campus.
- **External campus community**
  CBU can accommodate functions including large and small conferences, workshops and business meetings.
- **Summer residence accommodation**
  CBU's modern, comfortable residences are conveniently located to accommodate multi-day conferences, travel groups or travelers visiting Cape Breton during the summer season.

DEVELOPMENT

Paula MacNeil, MEd Ext. 1848
Director

Development has responsibility for planning and executing campaigns, alumni relations and stewardship of donors for the University. Staff fulfilling these roles enlist, manage and support a number of volunteer committees to acquire scholarships and, periodically, capital campaign fund contributions, from the broader business, professional and alumni communities. Fundraising fosters development of relationships with corporations, private foundations and individuals across the country to strengthen CBU's private gift resources. Staff members are responsible for the cultivation and solicitation of gifts, donor recognition and the services to support these initiatives. Fundraising staff are located upstairs in the Student, Culture and Heritage Building (CE 341).

ALUMNI OFFICE

Lindsey Smith — Ext. 1199
Development Officer

The Alumni Office fosters a lifelong interest in CBU among its graduates through alumni events, regional chapters, scholarship development and communication vehicles such as the alumni magazine, *Distinction*. It welcomes the participation of students during their senior years at CBU and encourages each and every graduate to maintain a lifelong relationship with their alma mater.

RECRUITMENT DEPARTMENT

Shea McInnis, MEd (IT) — Ext. 1888
Director

The Student Recruitment Office at CBU is responsible for providing prospective students with information on all post-secondary education programs and on student life at the University. It also educates students of high school age about the importance of post-secondary education, by raising aspirations and building links with high schools and colleges locally, regionally, nationally and internationally. Some of the recruitment activities undertaken by the department include high school visitations, campus tours, education fairs, open house events and an alumni referral network. The office is located in the Marvin Harvey Building (B190).

CBU GLOBAL

Eleanor Anderson, BBA, MTA — Ext. 1401
Director

CBU Global is the coordinating arm of CBU's External Department responsible for developing and delivering programs and partnerships linked to internationalization of the University. Overall, the goal is to graduate citizens who are internationally knowledgeable. Specifically, CBU Global is mandated to assist in the development and implementation of CBU's Internationalization Strategy, to ensure that CBU has an integrated and cohesive approach to international activities, to develop and deliver a broader awareness on campus and in the community, of international intercultural issues.

FACILITIES MANAGEMENT

Don MacIsaac, PEng — Ext. 1345
Director

Rick Bickerton — Ext. 1105
Manager, Facilities Operations

Ken Baker — Ext. 1416
Manager, Construction Projects

Anita Morrison — Ext. 1106
Administrative Assistant

Facilities management supports CBU’s overall mission by effectively and efficiently delivering a multitude of diverse functions. Specifically, the department is responsible for:

- management of the residences
- utilities services
- facilities maintenance and repair
- alterations and renovations to existing facilities
- management of all new construction on campus
- grounds upgrade and maintenance
- security through the Corps of Commissionaires
- food service through Chartwells College and University Dining Services
- custodial services through Crothall Canada Services
- solid waste collection, disposal and recycling
- office moving and special event set-ups
- snow removal and salting
- operation and maintenance of the Canada Games Complex

RESIDENCES

Doug Connors — Ext. 1791
Residence Manager

Sylvia Clements — Ext. 1792
Residence Coordinator

The CBU residences are under the management of the Department of Facilities management.

There are four residences: MacDonald Residence is a traditional dormitory style residence accommodating 152 students in primarily double rooms; Cabot Residence is an apartment-style residence that accommodates 123 students in four-bedroom apartments; Alumni Hall is a 190-bed residence divided into 24, five-bedroom, apartment-style units and 70 beds in 35 double dorm-style rooms; Harriss Hall is a 111-bed residence divided into 14 single suites which have private washroom facilities, five wheel chair accessible single rooms and 92 super single rooms, where students would share a washroom with only one other person. Harriss Hall also contains a dining hall.

The best way to experience campus life is to live in residence at the center of campus activities and close to the Library, classes, cafeteria, sports facilities, Computer Centre, Student Service Centre and the Students' Union. Residence staff seek to promote academic achievement and personal development.

A major part of residence life is meeting people and making new friends. Residence Assistants will help students to adjust to and grow in, their new environment.

FINANCE OFFICE

Gordon M. MacInnis, CA — Ext. 1128
Vice-President, Finance and Operations

The Finance Office is responsible for a wide range of financial services for all components of the University operations. The office manages outstanding student accounts. It processes the University accounts receivable, accounts payable, purchasing and administrative accounts.

BOOKSTORE/CAPER CORNER

George MacLeod — Ext. 1356
Manager

ADMINISTRATIVE OFFICES AND SERVICES

Cape Breton University Bookstore is located on the ground floor of the Students' Union Building next to the University Commons and is open Monday to Friday from 9:00 a.m. to 4:30 p.m. Hours are extended at the beginning of the fall and winter terms in September and January.

The bookstore supplies new and used textbooks and course material for the courses taught at CBU, including distance courses. Textbook buy backs are regularly held to provide students with an opportunity to sell their used textbooks for cash and to provide used textbooks for resale in the bookstore. There is also a good selection of school supplies, cards, art supplies and general reading books at reduced prices.

Caper Corner is located in the bookstore and provides a range of crested clothing including hoodies, jackets, hats, t-shirts, pants, crews, giftware, and backpacks.

PRINT SHOP

Yvonne LeJeune Ext. 1152/1607

The Print Shop is located beside the mailroom. Services available to faculty and staff are printing, binding, laminating and preparation of overheads. These services are also available to students, depending upon workload.

Hours:
Monday - Friday 8:30 a.m. - 12:00 p.m. and 1:00 p.m. - 4:00 p.m.

MAILROOM

John Doue Ext. 1137

The Campus Mailroom is located across from the bookstore. Canada Post mail boxes are located next to the mailroom. There is also a box for interoffice mail.

HUMAN RESOURCES DEPARTMENT

Lois Devoe, BBA, CHRP Ext. 1223
Director

The Human Resources Department provides a wide range of services to faculty and staff. The services include faculty and staff recruitment, compensation and benefits administration, labour relations, staff development, performance management and occupational health and safety. Employment opportunities are posted on the University's web page (www.cbu.ca/employment). The Human Resources Department is located in CE329

PAYROLL OFFICE

Debbie MacNeil, BCOMM Ext. 1363
Payroll Manager

The Payroll Office is responsible for processing bi-weekly payment to employees through direct deposit, issuing records of employment and T4 slips. The Payroll Office is located in the Human Resources Department in CE329.

HUMAN RIGHTS OFFICE

Helen Boone, MSW, RSW Ext. 1873

ADMINISTRATIVE OFFICES AND SERVICES

The Human Rights Officer is responsible for matters and issues relating to all kinds of harassment and discrimination in accordance with the University Discrimination and Harassment Policy. This individual deals directly with students, faculty and staff who have complaints in these areas. Workshops and seminars on fair and equitable treatment of all members of the CBU community are offered.

Students who have any questions about these issues can talk confidentially to the Human Rights Officer who may provide suggestions and advice on your rights.

COMPUTER SERVICES

Debbie Rudderham, Chief Information Officer — Ext. 1446

Parker MacDonald, Director — Ext. 1159

The Computer Centre provides support services for all students, faculty and staff engaged in education, research and the public service mission of the University. Computer Services also assists the administrative functions that support these activities.

Computer Services maintains the University's Internet connection, Email and web services, DNS services for the CBU domain, firewall configuration, other electronic communication services including video conferencing services and telephone PBX, audio visual and smart classroom support, video production and administrative software support. Computer Services manages the University's evergreen program for students, faculty, researchers and staff. Staff members can provide detailed specifications for computer purchases and are responsible to configure and install new desktop computers for faculty and staff. The Computer Centre is located on the first floor of the Marvin Harvey Building.

COMPUTER CENTRE

Ext. 1123

The first point of contact for IT support from Computer Services is the Help Desk located on the first floor of B-Block next to the computer labs. Students, faculty, and staff may obtain help and advice on computer-related problems pertaining to on-campus facilities by visiting the Help Desk in person or by phoning at 563-1123. Problems not resolved at the Help Desk are entered into a call tracking system and assigned to appropriate staff based upon the nature and severity of the problem.

Faxes can be sent or received through the Computer Centre for a fee. The University fax number is (902) 562-0119. Video conferencing services can also be booked through the Help Desk; there is a fee for this service.

Students have access to nine computer labs equipped with current microcomputer configurations and laser printing; there is a fee for laser printing.

Each computer has software to provide word processing, spreadsheet processing, database development, statistical analysis, web browsing, email services and a host of language compilers and course-specific software. All lab computers are connected to the University's network/Internet and sit behind the Internet firewall. To authenticate access to the University's network facilities, a user Login ID and password are created for each student upon registration. Student accounts are a privilege, not a right and are governed by the University's Acceptable Use Agreement (AUA) document. Violations of the AUA can result in user accounts being deactivated.

Residence students have Internet access connections in their rooms. Access to the Internet is provided through a proxy server and provides for e-mail and web browsing services only.

CAPE BRETON UNIVERSITY FOUNDATION

Cape Breton University Foundation is incorporated under the Province of Nova Scotia University Foundations Act and is a registered charity under the Federal Income Tax Act. The Foundation acts solely for the benefit of Cape Breton University.

As a result of changes to the Federal Income Tax Act in early 1997, that neutralized the benefit of providing gifts through the Foundation to CBU, the Foundation turned its attention to more innovative ways of realizing benefits for the institution. It currently owns a number of active subsidiaries, incorporated as private-sector companies, including Applied Communications Technologies, Inc.; Environmental Services Laboratory, Inc.; LearnCorp International, Inc; and Cape Breton University Press, Inc.

ADMINISTRATIVE STRUCTURE

UNIVERSITY GOVERNANCE

January 2011

Officers

Chancellor	Ms. Annette Verschuren
Chair	Mrs. Norma Boyd
Vice-Chair	Dr. Rex Dunn
Secretary	Dr. Robert Bailey
Treasurer	Mr. Gordon MacInnis

Ex- Officio

President & Vice-Chancellor	Dr. H. John Harker

Appointed by the Minister of Education (12)

Ms. Connie Boone
Ms. Norma Boyd
Mr. Kenneth Crawford
Mr. Rany Ibrahim
Ms. Daphne Hutt-MacLeod
Mr. Leo MacIntosh
Mr. Craig MacMullin
Mr. Tuma Young
Mr. Ron Marman
Three vacancies

Appointed by the Board of Governors (12)

Ms. Lynn Crawford
Ms. Anita DeLazzer
Dr. Rex Dunn
Mr. Patrick Lahey
Mr. Kevin MacDonald
Mr. Gordon MacInnis
Dr. Hayes MacNeil
Mr. John Malcom
Capt. Lise Marchand
Mr. John G. Paul
Mr. Kirk Purdy
Ms. Marlene Usher

Appointed by Faculty (4)

Dr. Diane Janes
Mr. Chester Pyne
Dr. Tom Urbaniak
Ms. Wendy Wadden

Appointed by the Student Body of CBU (4)

Mr. Philip Campbell
Ms. Allison Haley
Ms. Jennifer Howarth
Mr. Adam Jamieson

Appointed by the Cape Breton Development Corporation (2)

Mr. Merrill Buchanan

SENATE MEMBERSHIP

January 2011

Ex-Officio

President & Vice-Chancellor	Dr. H. John Harker
President, CBU Students' Union	Ms. Allison Haley
Vice-President Academic, CBU Students' Union	Mr. Adam Jamieson
Vice-President, Academic & Provost	Dr. Robert Bailey
Vice-President, Finance & Operations	Mr. Gordon MacInnis
Vice-President, Student Services & Registrar	Ms. Alexis Manley
Vice-President, External	Dr. Keith Brown
Dean, Arts & Social Sciences	Dr. Rod Nicholls
Dean, School of Professional Studies	Dr. Robert Bailey
Dean, Science & Technology	Dr. Allen Britten
Dean, Shannon School of Business	Mr. John MacKinnon
Dean, Research and Graduate Studies	Dr. Dale Keefe
Principal, Unama'ki College	Mr. Lindsay Marshall

Executive

Chair	Dr. Peter MacIntyre
Vice-Chair	Mr. Allan Fraser
Students' Union President	Ms. Allison Haley
Secretary	Dr. Coleen Moore Hayes
Chair, Academic Committee	Dr. Geoffrey Lee-Dadswell
Chair, Bylaws & Procedures Committee	Dr. Tom Urbaniak
Chair, Nominating Committee	Ms. Claudette Taylor
Chair, Planning & Priorities Committee	Mr. Allan Fraser
Chair, Research Committee	Dr. David McCorquodale
Chair, Teaching, Learning & Evaluation Committee	Dr. Matthias Bierenstiel
Chair, Quality Assurance Committee	Ms. Wendy Wadden

School of Arts & Social Sciences

Dr. David Johnson
Dr. Steve Martell
Dr. Joe Parish
Dr. Tom Urbaniak

Shannon School of Business

Dr. Patrick deLamirande
Mr. Allan Fraser
Dr. Princely Ifinedo
Ms. Patricia Morrison
Ms. Joanne Pyke
Ms. Wendy Wadden

School of Professional Studies

Dr. Maureen Finlayson
Ms. Karen Harroun
Dr. Diane Janes
Ms. Willena Nemeth
Dr. Coleen Moore-Hayes
Ms. Claudette Taylor

SENATE MEMBERSHIP

School of Science & Technology
Dr. Peter MacIntyre
Dr. Matthias Bierenstiel
Dr. Geoff Lee-Dadswell
Mr. Carl Mercer

Students' Union
Ms. Stephanie Bagnell
Mr. Philip Campbell
Mr. Tim Damon
Ms. Jennifer Howarth
Mr. Brian MacMillan
Mr. Stephen MacIsaac
Mr. Andrew Mortimer

Board of Governors - Two external members
Ms. Lynn Crawford
Mr. Tuma Young

Canadian Coast Guard College -
One faculty member from the Officer Training Program M. Louis Guimond

Library
Mr. Ron Rooth

Faculty

Non-voting Membership
University Librarian and Director of Library Services Dr. Robert Campbell
Coordinator, Quality Assurance, Teaching & Learning Ms. Eileen Smith-Piovesan

ADMINISTRATIVE STRUCTURE AT CAPE BRETON UNIVERSITY

President & Vice-Chancellor	**H. John Harker, LLD**	**563-1120**
Vice-President, Finance & Operations	Gordon MacInnis, CA	563-1128
Vice-President, Academic & Provost	Robert Bailey, PhD	563-1980
Vice-President, External	Keith Brown, PhD	563-1859
Vice-President Student Services, and Registrar	Alexis Manley, MBA	563-1116
Administrative Assistant to the President, Vice-President, Finance & Operations	Ramona Lewis	563-1393
Administrative Assistant to the Vice President, Academic & Provost	Glenda Corbett, BBA	563-1188
Special Project Assistant	Shauna Kelly, MEd(IT)	563-1991
Administrative Secretary		563-1900
Coordinator, Quality Assurance/Teaching and Learning	Eileen Smith-Piovesan, MA, MEd	563-1459
Academic Vice-President CIC	Roger Winn, MSc	
Dean, School of Arts & Social Sciences	**Rod Nicholls, PhD**	**563-1354**
Assistant to the Dean	Lynn MacEachern	563-1261
Chair, Anthropology & Sociology	Janice Drodge, MA	563-1259
Chair, Communication	Dawn White, BA	563-1627
Chair, Heritage and Culture	Heather Sparling, PhD	563-1242
Chair, History & Fine Art	Graham Reynolds, PhD	563-1145
Chair, Languages & Letters	Mary Keating, PhD	563-1623
Chair, Philosophy & Religious Studies	Scott Stewart, PhD	563-1252
Chair, Political Science	Terry Gibbs. PhD	563-1274
Chair, Community Studies	Jane Connell, PhD	563-1222
Playhouse Manager	Todd Hiscock, MFA	563-1351
Dean, Shannon School of Business	**John MacKinnon, MBA, FCA**	**563-1221**
Assistant to the Dean	Jennifer Pino, MA	563-1161
Chair, Financial & Information Management	Martin Moy, MBA	563-1179
Chair, Organizational Management	Wendy Wadden, LLB	563-1310
Director, MBA in CED & CED Institute	George Karaphillis, MBA	563-1467
Program Co-ordinator, MBA in CED & CED Institute	Anne Michele Chiasson, MBA	563-1664
Dean, School of Science & Technology	**David McCorquodale, PhD**	**563-1262**
Assistant to the Dean, Science & Technology	Joanne Hughes	563-1341
Chair, Biology	Sean Modesto, PhD	563-1972
Chair, Chemistry	Adango Miadonye, PhD	563-1210
Chair, Engineering	Rick Pierrynowski, MEng, PEng	563-1183
Chair, Mathematics, Physics and Geology	Edmund Rudiuk, PhD	563-1289
Chair, Psychology	Katherine Covell, PhD	563-1413
Dean, School of Professional Studies	**Robert Bailey, PhD**	**563-1980**
Assistant to the Dean, Professional Studies	Brenda LeLoup, BACS	563-1304
Chair, Education Department	Catherine O'Brien PhD	563-1849
Manager & Technology Enhanced Learning, Education	Terry MacDonald, MEd(IT)	563-1647
Manager & Practicum Coordinator, Education (BEd)	Susan Basso, MEd	563-1651
Associate Dean, Nursing	Evelyn Kennedy, MEd	563-1928
Chair, Nursing	Barb Jamieson, MN	563-1965
Program Support, Nursing	Lee Singleton, BDip	563-1944
Chair, Health Studies	Helen Mersereau, MH.Sc	563-1206
Nutrition	Ed Barre, PhD	563-1921
Coordinator, Fitness & Active Living	Yann Artur, BEES	563-1633
Administrative Assistant, CB Health Research Centre	Benita Manzine	563-1833
Distance Education Coordinator	Laura Baker, BACS	563-1806

ADMINISTRATIVE STRUCTURE

Principal, Unama'ki College	**Lindsay Marshall, BA**	**563-1827**
Interim Vice- Principal Unama'ki College	**Rod Nicholls, PhD**	**563-1354**
Program Director, Aboriginal Academic Support Programing	Leanne Simmons, MEd	563-1240
Aboriginal Community Liason	Ann Denny, BBA	563-1402
Director, Mi'kmaq Language Lab	Stephanie Inglis, PhD	563-1201
Director, Mi'kmaq Student Services	Patrick Johnson, BA	563-1415
Coordinator, Mi'kmaq Resource Centre	Diane Chisholm, BA	563-1660
Chair, Indigenous Studies	Rod Beresford, BSc, MSc	563-1609
Aborigianal Communications Coordinator	Payton Chishom	563-1934
Secretary	TBA	563-1871

Finance Office

Manager, Financial Services	Glenn MacDonald, BBA	563-1346
Manager, Financial Compliance & Ancillary Operations	Donnie Hamilton, CA	563-1637
Manager, Research Operations	Carole MacLeod, BBA, CMA	563-1851
Senior Accounts Receivable/Collection Officer	Stephanie MacDonald, BBA	563-1670
Accounts Receivable Clerk	Tabitha Arsenault, BBA	563-1374
Senior Accounting Clerk,	Lucille Mackie	563-1168
Buyer/Purchasing Clerk	Nancy MacNeil, BBA	563-1103
Accounts Payable Clerk	Colleen Keough, BBA	563-1373
Accounting Clerk	Brenda MacDonald, BBA	563-1100
Assistant to Manager, Financial Compliance	Janet MacPherson, BA	563-1985

Computer Services

Chief Information Officer (CIO)	Debbie Rudderham, BSc., ISP	563-1446
Director, IT & Computer Services	Parker MacDonald, BTI, DiplTech	563-1159
Programmer/Analyst	Patrick Donovan, BEd	563-1669
Programmer/Analyst	Bruno McInnis, DiplTech	563-1154
Manager, Computer Operations	Ben Pickles, BBA, DiplTech	563-1155
Network Administrator	Darren MacKinnon	563-1987
Microcomputer Specialist	Stephen MacLeod, BTI, DiplTech	563-1625
Microcomputer Specialist	Don MacNeil, BTI,BBA	563-1171
Service Desk Operator	Jason White, BBA	563-1171
Service Desk Operator	Sajive Kochhar, BA	563-1906
Service Desk Operator	Kashif Masood, BTI	563-1123
Technical Writer/Web Support Specialist	Jacqueline Côté, MA, BComm	563-1160

Centre for Sustainability in Energy and the Environment

Chief Operating Officer	Ross McCurdy, PhD	563-1392
Executive Assistant	Debi Walker	563-1292
Program Development Officer	David Alderson, B.Eng., MBA CED	563-1239
Junior Sustainability Researcher	Basque, Janice	
Sustainability Researcher	Johnson, Stan	

Facilities Management

Director, Facilities Management	Don MacIsaac, PEng	563-1345
Manager, Facilities Operations	Rick Bickerton	563-1105
Manager, Construction Projects	Ken Baker	563-1416
Administrative Assistant, Facilities Management	Anita Morrison	563-1106
Residence Manager	Doug Connors, BACS, Dip. Orth. Tech	563-1791
Residence Coordinator	Sylvia Clements	563-1792
Manager, Canada Games Complex	Keith MacPherson, BSc	563-1442

Human Resources

Director, Human Resources	Lois Devoe, BBA, CHRP	563-1223
Senior Human Resources Officer	Bette Yetman, BSW	563-1157
Human Resources Officer	Alana Serroul	563-1936
Human Resources Assistant	Debbie Calabrese	563-1158

Manager, Payroll	Debbie MacNeil, BComm	563-1363
Payroll Assistant	Glenda Corbett, BBA	563-1109
Vice-President Student Services and Registrar	**Alexis Manley, MBA**	**563-1116**
Assistant to the Vice- President	Anne MacMullin, BPR	563-1650
Manager of Student Financial Services	John Mayich, BBA, MBA	563-1420
Director, Student Services	**Norm Smith, MBA**	**563-1225**
Learning Commons and Student Life Centre:		
Administrative Assistant	Angela MacKinnon	563-1639
Academic and Career Advisor	Michael MacIsaac, BA	563-1408
International Student Advisor	TBA	
Manager, Student Support Services	Elaine Delaney, BACS	563-1986
International Student Advisor	Mark Carabin, BA	563-1671
Jennifer Keeping AccessAbility Centre	Mel Clarke, BACS, BA	563-1408
Clinical Social Worker & Human Rights Officer	Helen Boone, MSW, RSW	563-1873
Coordinator, Writing Centre	Tammy Byrne, MA	563-1883
Chaplaincy	**Fr. Martin MacDougall, Chaplain**	**563-1173**
Associate Chaplain		563-1173
Max Bell Centre		
Medical Doctor	Reggie Sebastian, MD	563-1337
Nurse/Office Coordinator	Marie Aucoin	563-1433
Secretary	Sarah Ferguson	563-1359
Physiotherapist	Nancy Dingwall, Dipl Phys Therapy	563-1275
Student Service Centre		
Director, Registration and Admissions	**Arlene Mullan, MSc**	**563-1198**
Manager of Admissions	Brendan MacDonald, MBA	563-1117
Manager of International Admissions	Gwen Harwood, MA	563-1844
Admissions Officer	Cheryl Livingstone, CIM	563-1166
Data Analysis/Logistics Co-ordinator	Patricia McComb-Boone, BBA, BTI	563-1165
Academic Support Officer (Located in Learning Commons)	Barbara Kennedy, BA	563-1646
Athletics		
Director, Athletics	John Ryan, BBA	563-1657
Administrative Assistant	Carol Anne Sheppard	563-1277
Men's Basketball Head Coach	Jim Charters, MBA	563-1409
Women's Basketball Head Coach	Fabian McKenzie, BPEd	563-1874
Women's Volleyball Head Coach	Claude Lapre, MA	563-1279
Campus Life & Promotion Coordinator	Doug MacKenzie	563-1291
Director, Recruitment Marketing	**Shea McInnis, MEd (IT)**	**563-1136**
Marketing & Recruitment Manager	Mora Giovannetti, BBA	563-1146
Recruitment & Admissions Officer	Sarah Farrow, BACS	563-1905
High School Liason Officer	TBA	563-1824
External Relations		
Vice-President, External	Keith Brown, PhD	563-1859
Assistant to the Vice-President	Kelly Unsworth	563-1447
CBU Global	Eleanor Anderson	563-1447
Director of Development	Paula MacNeil, MEd	563-1848
Development Officer, Donor Relations	Crystal Aboud-Mahar, BPR	563-1232
Development Officer, Alumni	Lindsay Smith	563-1199
Athletic Development Officer,	Ken Bickerton, MA	563-1676
Director of Communications	Irene Khattar, BA	563-1896

Communications/PR Officer	Rebecca Chisholm, BComm	563-1638
Video Production Coordinator	Lisa Patterson, BACS	563-1601
Web Communications Specialist	Darrell MacRae	563-1343
Production/Graphics Co-ordinator	Gail Jones, Dipl.Tech	563-1610
Conference Services & Events Officer	Peg Cummings, BSc	563-1803

Office of Research and Graduate Studies

Dean, Research and Graduate Studies	Dale Keefe, PhD,	563-1185
Assistant to the Dean	Brenda LeLoup, BACS	563-1304
Research Officer	Sander Taylor, BSc	563-1338
Research Support Officer	Jodi McDavid, MA	563-1107
Industry Liaison Officer	Sarah Conrod, BSc, MEd	563-1842
Director, Tompkins Institute	Edwin MacLellan, PhD	563-1147
Director, Centre for International Studies	Garry Leech, MA	563-1169
Director, CED Institute	George Karaphillis, MBA	563-1467
Director, Marketing Research Centre	Mary Jane Morrison	563-1257
Director, Small & Medium-sized Enterprise Institute	Harvey Johnstone, PhD	563-1178
Director, Small Business Development Centre	Mary Jane Morrison	563-1257
Director, Alexander Graham Bell Institute	Sarah Conrod	563-1842
Director, Bras d'Or Institute for Ecosystem Research	Bruce G. Hatcher, PhD	563-1988
Director, Centre for Cape Breton Studies	Richard MacKinnon, PhD	563-1284
Director, Institute for Integrative Science/Health (IISH)	Cheryl Bartlett, PhD	563-1624
Director, International Inst. for Tourism Development	Wendy Wadden, LLB	563-1229
Director, Centre for Natural History	David McCorquodale, PhD	563-1260
Co-Directors, Children's Rights Centre	Katherine Covell, PhD	563-1413
	Brian Howe, PhD	563-1214
Co-Directors, Louisbourg Institute	Andrew Parnaby, PhD	563-1286
	Graham Reynolds, PhD	563-1145
Director, Philosophy & Religion Centre	Ken Bryson, PhD	563-1938
Industrial Research Chair in Mine Water Remediation and Management	Dr. habil. Christian Wolkersdorfer	563-1285
Canada Research Chair in Intangible Cultural Heritage	Richard MacKinnon, PhD	563-1284
Canada Research Chair in Integrative Science	Cheryl Bartlett, PhD	563-1624
University Chair in Marine Ecosystem Research	Bruce Hatcher, PhD	563-1943

Beaton Institute

Manager	Catherine Arseneau, MA	563-1326
Secretary	Gerardette Brown	563-1327
Archivist	Jane Arnold, MLIS	563-1690
Archival Assistant	Anne Connell, BA	563-1425
Archival Research Assistant	Anne MacNeil, BA	563-1329

Library

University Librarian and Director of Library Services	Robert Campbell, PhD	563-1698
Librarian	Laura Syms, MLS	563-1994
Librarian	Cathy Chisholm, MLIS	563-1993
Librarian	Mary Dobson, MLS	563-1994
Librarian	Ronald Rooth, MLS	563-1994
Librarian	Lenard Lawless, MLS	563-1993
Head of Circulation	Debbie MacInnis, BA	563-1674
Library Technician, Cataloging	Pauline Murray, BA, Dipl LibrTech	563-1619
Library Technician	Nick Sobol, BA	563-1675
Library Technician	Cathy Toomey, Dipl SecSci	563-1619
Library Technician	Brenda O'Flaherty, BSc, Dipl LibrTech	563-1675
Library Technician	Mary Campbell	563-1995
Library Assistant	Jeanne Russell	563-1619
Library Assistant	Diana MacKinnon-Furlong	563-1997
Library Assistant	Carla White	563-1619

ADMINISTRATIVE STRUCTURE

Library Technician	Caroline Power, BA, Dipl LibrTech	563-1675
Library Clerk	Janet Fraser	563-1320
Library Clerk	Barry Gabriel, BEd	563-1320
Administrative Assistant	Anne Marie MacKenzie, Dipl SecSci	563-1421

FACULTY

SCHOOL OF ARTS AND SOCIAL SCIENCES

Professores Emeriti

Guy, James, PhD (St. Louis), Emeritus Professor of Political Science
MacLeod, Gregory, PhD (Louvain), Emeritus Professor of Philosophy
Tennyson, Brian, BA (Hons), MA (Toronto), PhD (London), Emeritus Professor of History

Senior Scholars

Davey, William, PhD (Ottawa)
Kavanagh, Afra, PhD (Wales)

Full-time

Brann-Barrett, Tanya, BACS (UCCB), Dipl Comm Studies (Concordia), MA (MSVU), PhD (UBC) Associate Professor, Communication
Broadhead, Lee-Anne, BA (Hons) (Trent), MA (Queen's), MLIS (Toronto), PhD (Leeds), Associate Professor, Political Science
Brodie, Ian, BA (STU), MA (MUN), PhD (MUN) Assistant Professor, Folklore Studies
Burrow, Sylvia, BA (Dal), MA (Alberta), PhD (Western), Associate Professor, Philosophy
Christie, Sheila, Assistant Professor, English
Claener, Nicole, BACS (UCCB), MA (Norwich), Assistant Professor, Community Studies
Connell, Jane, BACS (UCCB), MAdEd (StFX), PhD (South Australia), Assistant Professor and Department Chair, Community Studies
Curtis, Jan M., BA (UCCB), MA, PhD (UNB), Associate Professor, English
Dechman, Margaret K., BA (Kings), MA (Dalhousie), PhD (Dalhousie), Assistant Professor, Sociology
Duenkel, Nicky, B. P. H.E., (Laurentian), MA (Western), PhD (University of Alberta), Assistant Professor, Community Studies
Drodge, Janice, BA, MA (MUN), Assistant Professor, Anthropology and Chair, Anthropology & Sociology
Farnsworth, Jane, BA (Western), MA, PhD (Queen's), Associate Professor, English
Gerrie, James, BA (Mount Allison), MA (Guelph), PhD (Guelph/ McMaster), Associate Professor, Philosophy
Gibbs, Terry L., BA (Calgary), MA (Leeds), PhD (Sussex), Associate Professor and Chair, Political Science
Harris, Tracey, BA, MA (Dal), Assistant Professor, Sociology
Howe, Brian, BA, MA (Simon Fraser), PhD (Toronto), Professor, Political Science and Co-director, Children's Rights Centre
Hudec, John, BSc (Saskatchewan), MA (Victoria), PhD (Alberta), Assistant Professor, Community Studies
Inglis, Stephanie, BA (McMaster), MA, PhD (MUN), Associate Professor, Mi'kmaq Studies
Johnson, David, BA (Toronto), MA (Brock), PhD (Toronto), Professor, Political Science, Member, North Atlantic Institute
Keating, Mary, BA (Acadia), BEd (StFX), MA (Acadia), PhD (Manchester), Assistant Professor, English
Krug, Kate, BA (Waterloo), MA, (York), Assistant Professor, Anthropology & Sociology
Leach, Nathaniel, BA (Wilfrid Laurier), MA, PhD (Western), Associate Professor, English
MacDonald, Michael, BA (UCCB), MA (Maine), Assistant Professor, Communication
MacGillivray, Donald, BA (StFX), BA (Hons) (Carleton), MA (UNB), PhD (Queen's), Professor, History
MacKenzie, Susan, BA (Kings), MEd (Springfield College, MA), Assistant Professor, Sports and Recreation
MacKinnon, Richard, BA (Mt. Allison), MA, PhD (MUN), Professor, Community Studies, Folklore & Humanities and Canada Research Chair in Intangible Cultural Heritage
MacLeod, Erna L., MA, PhD (Massachusetts, Amherst), Assistant Professor, Communications
MacLeod, Mary K., PhD (Edinburgh), Associate Professor, History and Fine Arts
Marchand, Richard, BA (StFX), MA, PhD (Dal), Associate Professor, English
Martell, Stephen, BSc (StFX), MSc (Calgary), Assistant Professor, Sport and Recreation

FACULTY

Moir, Scott, BA (Wilfrid Laurier), MA (McMaster), PhD (Guelph), Associate Professor, History
Molloy, Andrew, BA, MPA, PhD (Concordia), Associate Professor, Political Science
Moore, Barry, MSW, RSW (Dal), Assistant Professor, Community Studies
Mount, Dana, B. ENV. Studies (York University), MA (York University), Assistant Professor, English
Mullan, David G., BA (Calgary), BD (Otago), BEd (Queen's), ThM (Toronto), PhD (Guelph), Professor, History and Religious Studies
Mulo-Farenkia, Bernard, BA (Yaounde), MA, PhD (Saarland), Associate Professor, French
Mysyk, Avis, BA, MA, PhD (Manitoba), Associate Professor, Anthropology
Nicholls, Roderick, BA (Mt. Allison), MA, PhD (Queen's), Associate Professor, Philosophy, Dean of Arts and Community Studies
Odartey-Wellington, Felix, BA(Hors), BL(Ghana), Grad. Diploma Transitional Justice (Cape Town), MA (Concordia), PhD (Ryerson-York), Assistant Professor, Communications
Parish, Joseph, MA (Western), PhD (Missouri-Columbia), Assistant Professor, Anthropology & Sociology
Parnaby, Andrew BA (Hons) (Queen's), MA (Simon Fraser), PhD (MUN), Associate Professor, History
Pettigrew, Todd, BA (Hons) (Western), MA (McMaster), PhD (Waterloo), Associate Professor and Department Chair, English
Ramji, Ruby, BA, MSc (Wilfrid Laurier), PhD (Ottawa), Associate Professor, Religious Studies
Reynolds, Andrew, BA (UNB), MA, PhD (Western), Associate Professor, Philosophy
Reynolds, P. Graham, BA (Minnesota), MA, BEd, PhD (Queen's) Professor, History and Department Chair, History and Fine Arts
Rolls, Judith A., BA (StFX), BEd (Dal), MA (Maine), PhD (Indiana), Professor, Communication
Silverberg, Mark, BEd (Toronto), MA, PhD (Dal), Associate Professor, American Literature
Sparling, Heather, BA (Wilfrid Laurier), MA, PhD (York), Associate Professor, Ethnomusicology, Chair Heritage and Culture
Stewart, R. Scott, BA (Dal), MA (Guelph), PhD (Waterloo), Professor and Department Chair, Philosophy
Urbaniak, Tom, BA (Hons), MA (Toronto), PhD (Western), Associate Professor, Political Science

Laboratory Instructor
White, Dawn, BA (CBU), Laboratory Coordinator and Department Chair, Communication

Adjunct Professors
Crawford, Tom, BSc (Acadia), MD (Dal)
Howard, Sean, PhD (Bradford)
McDonald, R. Andrew, BA (Trent), MA (MacMaster), PhD (Guelph), Adjunct Associate Professor, History and Fine Arts

Part-time
Boone, Kenny, Lecturer in Fine Arts
Chapman, Stan, Lecturer Ethnomusicology
Charters, Jim, BACS, BBA (UCCB), MBA (SMU), Lecturer, Sports and Human Kinetics
Copp, Paulina, BSc (UAG, Mexico), Lecturer in Spanish
Hancock, Jan, BA (Hons), MSc, PhD (Southampton) Lecturer, Political Science
Hiscock, Todd, BACS (UCCB), MFA (York)
Leech, Garry, BA (Hons) (UNLV), MA (Acadia), Lecturer, Political Science and Director, Centre for International Studies
MacNeil, Hector, BA (UCCB), MA (StFX), Lecturer, Celtic Culture
MacNeil, Kyle, Lecturer in Ethnomusicology
McDavid, Jodi, BA (St. Thomas), MA (MUN), Lecturer, Folklore
McDonald, Chris, BMus (Western), MA, PhD (York), Lecturer, Ethnomusicology
Russell, Emma, Language and Letters

SHANNON SCHOOL OF BUSINESS

Full-time

Brown, Dannie, B.Ed., MEd., MBA, DBA, Assistant Professor, Organizational Management
Brown, Keith G., BBA (StFX), BEd (SMU), MBA (City), PhD (Bradford), Associate Professor and Vice-President, External
Corsano, Theresa, BBA, MIR (Queen's), Assistant Professor, Management
De Lamirande, Patrick, BA, MA (Laval), PhD (Montreal), Assistant Professor, Economics
Finney, Sherry, BBA (UCCB), MBA (SMU), PhD (Warwick), Associate Professor, Marketing
Francois, Daniel, Dipl. of Vocational Studies, Hotel Business Organizations-Cuisine, Min. of Education, Academy of Nancy-Metz, France, Executive Chef de Cuisine, Instructor, Hospitality/Tourism Management
Fraser, Allan C., BBA (UCCB), MBA (SMU), CIM, Assistant Professor, Human Resource Management and Business Administration
Geddes, Ruthanne, MBA(CED) (UCCB), Instructor, Hospitality/Tourism Management, Tourism Management
Hayes, Derrick, MBA(CED) (UCCB), CA, CMA, Assistant Professor, Accounting
Ifinedo, Princely, MSc, MBA, PhD, Associate Professor, Management Science
Johnstone, Harvey, BSc, BEd (StFX), MA (Dal), MBA (SMU), CMA, PhD (Durham), Professor Accounting & Small Business Management, and Director, SME Institute
Karaphillis, George, BEng (McGill), MBA (Virginia Tech), Associate Professor, Management Science and Director, MBA (CED) Program & CED Institute
Leviten-Reid, Catherine, BA (York), MSc (Guelph), Phd (Winsconsin), Assistant Professor, Organizational Management
Lionais, Doug, BBA (UCCB), PhD (Durham), Associate Professor Financial and Economic Development
MacKinnon, John, BBA (StFX), MBA (Queen's), FCA (NSICA), Associate Professor, Accounting and Dean, Shannon School of Business
MacLean, Lynn, BBA (UCCB), MBA (SMU), CA (NSICA), Assistant Professor, Accounting
MacNeil, Elaine, BBA (StFX), MBA (Dal), FICB, Assistant Professor, Marketing
Manley, Alexis, BA, BEd (StFX), MBA (Dal), Associate Professor, Management Science and Vice-President Student Services, and Registrar
McCarron, Ronald, V., BBA (UCCB), MBA (SMU), Assistant Professor, Management Science
Moy, Martin M., BA, BComm (Windsor), MBA, MA (Dal), Associate Professor, Economics and Finance and Department Chair, Financial and Information Management
Pyke, Joanne, BACS, BBA (UCCB), MBA (City), Assistant Professor, Marketing
Scott, Jacquelyn Thayer, O.C., MBA (Manitoba), PhD (Colorado), LLD (Waterloo), Honorary Diploma (Loyalist), Professor, Organizational Management & Public Administration
Stevens, Jason, BSc, MA, PhD, Assistant Professor, Economics.
Wadden, Wendy, BComm, (Hons) LLB (Dal), Instructor, School of Business and Department Chair, Organizational Management
Watuwa, Richard, BSc (MUK), MPhil (Glasgow), PhD (Dalhousie), Associate Professor, Finance

Adjunct Professors

Calder, Wm. Berry, BSc (Wayne State), MA (Detroit), EdD (Toronto), Organizational Management
Butterworth, Ken, BBA (UCCB), MMDS (Canberra), Organizational Management
Godfrey, Steve, MA (Edinburgh), Organizational Management
Limky, Kim, BA (Ottawa), MA (Ottawa), PhD (Waterloo), Tourism Management
MacIntyre, Gertrude, BSc (Central Connecticut State), MEd, PhD (Toronto), Organizational Management
Shaw, W.A. Sam, BA (Chaminade), MSc (Dal), MEd, PhD (Toronto), Organizational Management

Part-time

MacDonald, Brendan, BBA (StFX), MBA (SMU)
McNamara, Michael, MBA (CED), MA(Waterloo), PhD(SFU)
Morrison, Mary Jane, BBA (UCCB), MBA (DAL)
Rowe, Karen, BBA (UCCB), CA
Vokey, Bill, MBA, PFP, FICB

SCHOOL OF PROFESSIONAL STUDIES

Full-time

Andrea, Belinda, RN, Nursing Practice Educator, Nursing
Bailey, Judy, BScN (St FX), MN (MUN), RN, Assistant Professor, Nursing
Barre, Edward, BSc (Hons) (Queen's), MSc (Ottawa), PhD (Guelph), Associate Professor, Nutrition
Betts, Patricia, METC (U of Bristol), BEd (Uof Alberta), MES (Dal), Assistant Professor, Education
Brennick, Debbie, BScN (StFX), MN (MUN), RN, Assistant Professor, Nursing
Cantwell, Debbie, BScN (StFX) RN, Nursing Practice Educator, Nursing
Carter, Mindy R., BA (Dalhousie), BEd (Lakehead), MA (U of British Columbia), Assistant Professor, Education
Finlayson, Maureen, BSc, BEd, (U of Montreal), MA (McGill),(MEd (MSVU), PhD (U of Montreal), Assistant Professor, Education
Fraser, Helen, MN (MUN) RN, Assistant Professor, Nursing
Gallivan, Gary, BSc (McMaster), MHSc (Ed) (Sydney, AU), CPHI(C), Instructor, Public Health
Griscti, Odette, MN (Malta) RN, Associate Professor, Nursing
Kennedy, Karen, BScN (St FX) RN, Nursing Practice Educator, Nursing
Howard, Patrick, BA, BEd, MEd, (MUN), Dip Ed, PhD (Alberta), Associate Professor, Education
Jacono, Brenda, BN (UNB), MScN (Toronto), RN, Associate Professor, Nursing
Jamieson, Barb, BScN (StFX), MN (Dal) RN, Assistant Professor, Nursing & Department Chair, Nursing
Janes, Diane, BA, MEd (MUN), PhD (UBC), Associate Professor and Department Chair, Education
Kennedy, Evelyn, BScN (StFX), MEd (MSVU), RN, Associate Professor & Associate Dean of Nursing
Lake, Kim, MN (Athabasca), BN (Athabasca) RN,Nursing Practice Educator, Nursing
Lewis, Jane, BHEc, MAdEd (StFX), PhD (Toronto), PAg, Associate Professor, Education
MacDonald, Angela, BScN (Dal) RN, Nursing Practice Educator, Nursing
MacDougall, Paul, BSc(Hons)(Acadia), BA (UCCB), BEd (Dal), MSc (U of London), Medical Laboratory Technologist (CSMLS), Registered Microbiologist (CCM), Instructor, Public Health
MacLennan, Bernard, BSc (StFX), RM (CCM), PG Dipl (London School of Hygiene and Tropical Medicine), MSc (U of London), Instructor, Microbiology
MacMullen, Jill BScN,(St FX), RN, Nursing Practice Educator, Nursing
MacPhee, Cyndee, BScN (StFX), MN (AU), RN, Assistant Professor, Nursing
McDonald, Melissa, B.Tech (EnvH) Dipl. EnvT (UCCB), CPHI(C), RFSP, Instructor, Public Health
McIsaac, Corrine, BScN (StFX), MN (StFX) RN, Associate Professor, Nursing
Mersereau, Helen, BSc (Hons) (Queen's), MHSc (Toronto), CIH, (American Board of Industrial Hygiene), ROH (Canadian Registration Board of Occupational Hygiene, CRSP (Board of Canadian Registered Safety Professionals), Instructor Public Health and Safety Officer and Department Chair, Health Studies
Moore-Hayes, Coleen, BACS (UCCB), MAEd (St.FX), PhD (Capella), Assistant Professor, Education
Nemeth, Willena, BScN (StFX), MN (MUN), RN, Assistant Professor, Nursing
O'Brien, Catherine, BA, BEd, MEd (Western), PhD (McGill), Associate Professor, Education
O'Neill, Patricia, BScN (StFX), RN, Nursing Practice Educator, Nursing
Profit, Sheila, BScN (StFX), MAdEd (StFX), RN, Associate Professor, Nursing
Rozee, Janice, MN (Athabasca),BScN (StFX) RN, Nursing Practice Educator, Nursing
Taylor, Claudette, BBA (UCCB), BN (Athabasca), MN (Dal) RN, Assistant Professor, Nursing
Walsh, Audrey, MN (Dal), RN, Assistant Professor, Nursing

Laboratory Technologist

Kelly, Lillian, Registered Medical Lab Tech (CSMLS), Member, NSCMLT, Microbiology Lab Technologist

Adjunct

Cox, Joseph, MD (McGill)
Depatis, Mark, MD (Montreal)
MacCormick, Ron, MD (Dalhousie)

FACULTY

MacDonald, Paul, MD (Dalhousie)

Part-time

Basso, Susan, BBA (UCCB), BEd (UMFK), Med (U of Calgary), Education
Drohan, Charles, BA, BEd, MEd (Counselling) (StFX), MEd (Acadia), Education
Hiscock, Todd, BACS (UCCB), MFA (York), Education
Howell, Frank, BA, Dipl Curr (UCCB), BEd, MEd, Education
Jones, David, BSc, BEd (Acadia), MEd (Uof BC), MA (MtSV), Education
Kearney, Kevin, BA (UCCB), BEd (StFX), MEd (MUN), Education
Lalonde, Elizabeth, BA, BFA (NSCAD), MEd (StFX), Education
Lewis, Diane, BA, BFA (NSCAD), MEd (St Marys), Education
Lloyd, David, BSc (Toronto), MA (Central Michigan), PhD (Toronto), Education
MacDonald, Jeanette, BA, BEd, MEd (StFX), MA (MtSV), Education
MacDonald, Terry, BSc (Acadia), BEd (StFX), MEd(IT), (MUN), Education
MacIsaac, Brenda, BEd (StFX), MA (MtSV), Education
Reynolds, Graham, BA (Minnesota), MA, BEd, PhD (Queen's), Education
Yorke, Charles, BSc (StFX), MEd(UNB), BEd(MtSV), PhD (UNB), Education

SCHOOL OF SCIENCE AND TECHNOLOGY

Professors Emeriti

Clemens, William, BA (North Carolina), PhD (Tennessee), Emeritus Professor of Psychology
Dunbar, Donald, BA (Dartmouth), MA (Columbia), PhD (Ohio State), Emeritus Professor of Psychology
Gallivan, Joanne, BA (StFX), MA, PhD (Waterloo), Emerita Professor, Psychology
Grant, Douglass L., BSc (Acadia), MS (Syracuse), PhD (McMaster), Emeritus Professor of Mathematics
Zodrow, Erwin L., MSc (Penn State), PhD (Western), Emeritus Professor of Geology

Full-time

Bailey, James William, BSc (Dal), BEng (NS Tech College), BTech (UCCB) PEng, MSc (Pittsburgh), Instructor, Engineering and Environmental Studies
Bailey, Robert, BSc (Guelph), MSc (Guelph), PhD (Western), Professor, Biology and Vice President, Academic & Provost
Baker, Rachel, BSc (Toronto), BSc (Calgary), MA, PhD (Concordia), Assistant Professor, Psychology
Bartlett, Cheryl M., BSc (Alberta), MSc, PhD (Guelph), Professor, Biology and Canada Research Chair in Integrative Science
Bierenstiel, Matthias, BSc, PhD (Guelph), Associate Professor, Chemistry
Bouman, Thomas, Dipl Forestry, FD (Göttingen), Associate Professor, Biology
Britten, Allen, BSc (StFX), PhD (Waterloo), Professor, Chemistry and Dean, School of Science and Technology
Butler, Stephen J., BSc, (Dal), PEng (NS), BEng (TUNS), Instructor, Engineering
Carre, Geoffrey, BSc (Trent), MSc, PhD (MUN), Assistant Professor, Psychology
Chen, Shaohua, BSc (Hangzhou), MSc, PhD (Montana), PhD (Simon Fraser), Associate Professor, Mathematics
Covell, Katherine, BA, MA (Simon Fraser), PhD (Toronto), Professor and Department Chair, Psychology and Co-director, Children's Rights Centre
D'Cunha, Godwin, BSc, MSc, PhD (Bombay), Associate Professor, Chemistry
Glassey, Barb, BSc, PhD (Winnipeg), Associate Professor, Biology
Jones, Katherine, BSc (Western), MSc (Guelph), PhD (Windsor), Associate Professor and Department Chair, Biology
Keefe, Dale, BSc (Hons) (MUN), PhD (Alberta), Professor, Chemistry and Dean of Research and Graduate Studies.
Korol, Susan, BA (Ottawa), PhD (Canterbury), Associate Professor, Psychology
Lee-Dadswell, Geoffrey, BSc (Waterloo), MSc, PhD (Guelph), Associate Professor, Physics
Locke, Clayton, BSc (SMU), BEng (NSTC), BEd (StFX), MSc (Dal), PEng, Instructor
MacIntyre, Peter, BACS (CBU), MA, PhD (Western), Professor, Psychology
MacIsaac, Lucia, Eng. Dip. (StFX), BEng, MASc (TUNS), Instructor, Petroleum Engineering
MacLellan, Edwin, PhD (Waterloo), MCIP, PEng, Professor, Engineering

FACULTY

MacNeil, Blair, BEng (TUNS), BSc (StFX), Instructor, Engineering
MacPherson, Joseph R., BSc, BEd, (StFX), Instructor, Engineering Technology
MacQuarrie, Stephanie, BSc, (Mount Allison), PhD (Virginia Polytechnic Institute), Assistant Professor, Chemistry
Martell, Jaime, BSc (SMU), PhD (Dal), Associate Professor, Chemistry
McCann, Stewart J. H., BA (York), MA (Guelph), PhD (Alberta), Professor, Psychology
McCorquodale, David, BSc (Guelph), MSc (Alberta), PhD (Australian National), Professor, Biology and Dean, School of Science and Technology
Mercer, Carl, DiplT (Mech), BTech (CBU), Instructor, Mechanical Technology
Miadonye, Adango, BSc, (Southbank), PhD (Leichestershire) Professor and Department Chair, Chemistry
Modesto, Sean, BSc, MSc, PhD, (Toronto), Associate Professor, Biology
Miller, Robin, Lecturer, Emergency Management - Term
Nicklason, Gary, BSc, MSc, PhD (Simon Fraser), Associate Professor, Mathematics
Pierrynowski, Richard, DiplE, BSc, (StFX), BEng (TUNS), MEng (UNB), PEng (NS), Instructor and Department Chair, Engineering
Preen, James, BSc (Leicester), PhD (Nottingham), Associate Professor, Mathematics
Rawlings, Timothy, BSc, MSc (UBC), PhD (Alberta), Associate Professor, Biology
Robertson, Erin, BA (Mount Allison), MA (Western), PhD (Western), Assistant Professor, Psychology
Rodney, Scott, Assistant Professor, Mathematics
Rudiuk, Edmund, MSc (Lublin), MSc, PhD (Western), Associate Professor, Mathematics (Statistics) and Department Chair, Mathematics, Physics and Geology
Salazar, Vielka, BSc, MSc (Florida International University) Assistant Professor, Biology
Schmidt, Heather, BA (University of Victoria), MA, PhD (York), Assistant Professor, Psychology
Standing, Paul, BTech, BSc, Instructor, Engineering
Tanchak, Michael A., BSc (Carleton), PhD (Saskatchewan), Professor, Biology and
Wolkersdorfer, Christian, Dipl (TU Clausthal, Germany), PhD (TU Clausthal, Germany), Habilitation (Bergakademie Freiberg, Germany), Professor, Mine Water Hydrogeology.
Xia, Helen, BEng, (NCIT, China), MEng, (Sichuan, China), MASc (Dal), Instructor Electronics Engineering

Adjunct Professors
Rudiuk, Maria, PhD (Marie Curie-Sklodowska)
Lambert, Timothy, BSc (Victoria), MSc (Dal)
Ross, Neil, BSc, PhD (McGill)
Hatcher, Bruce, BSc, MSc (Dal), PhD (Sydney), Biology
Naikwadi, Krishnat P., PhD (Shivaji)

Laboratory Instructors and Technologists
Cormier, Chantelle, BSC (CBU), Laboratory Instructor, Biology
Forgeron, Denise, BSc (St FX), BA (CBU), BEd (SMU), MEd (MUN), Senior Laboratory Instructor, Biology
Foss, Karen, BSc (MSVU), Senior Laboratory Instructor, Chemistry
Glogowski, Cyndie, BA, BSc, (CBU), MSc (Lakehead), Senior Laboratory Instructor Biology
Howley, Calvin, BSc (StFX), MSc (Dal), Senior Laboratory Instructor, Chemistry
MacInnis, Judy, BSc, BEd (Mt. Allison), MSc (StFX), Senior Laboratory Instructor, Chemistry
MacIntosh, Kathryn, BSc (Dal), MSc (Dal/NSAC), BEd (MSVU), Senior Laboratory Instructor, Biology
MacKenzie, Wendy, BSc (CBU), MSc (Ottawa), Senior Laboratory Instructor, Biology
O'Callaghan, D'Anne, DiplT (Chem), BTech, BSc (CBU), Laboratory Instructor, Chemistry
Pyne, Chester A., BEng (TUNS),Senior Laboratory Instructor, Physics
Richardson, Joyce, BSc (MSVU), Senior Laboratory Instructor, Chemistry
White, Kellie, BA (UNB), MSc (Western), Laboratory Instructor, Biology
Wright, Peggy, BSc (MUN), Senior Laboratory Instructor, Computing Science and Mathematics

Part Time
Bruce, James, Engineering

FACULTY

Campbell, Kelly, Psychology
Rogers, Conrad, Mathematics, Physics and Geology

UNAMA'KI COLLEGE OF CAPE BRETON UNIVERSITY

Unama'ki College Elders (retired Indigenous Studies professors)
Marshall*, Joseph B., LLB (Dal), retired Associate Professsor of Mi'kmaq Studies
Marshall*, Murdena, BEd (UNB), MEd (Harvard, D. Letters, *honoris causa* (CBU). Retired Associate Professor of Mi'kmaq Studies
Moore*, Sr. Dorothy, BA, BEd, MEd (StFX), D. Letters, *honoris causa (*MSVU), D. Laws, *honoris causa* (CBU), D. Civil Law, *honoris causa (*SMU).Retired Associate Professor of Mi'kmaq Studies. Founding Director, Native Studies, CBU

Full-time
Beresford, Rod, BSc, (CBU), MSc, (Dal), Assistant Professor, Integrative Science
Inglis, Stephanie, BA (McMaster), MA, PhD (MUN)

Part-time
Brown*, Douglas, BA (CBU,) LLB (Dal)
Bryson, Kenneth, BA (St. Patrick's), BPh, MA (Ottawa), LPh (St Paul), PhD (Ottawa), Professor Emeritus (CBU)
Guy, James, BA (Loyola), MA (Fordham), PhD (St. Louis,) Professor Emeritus (CBU)
Hatcher, Annamarie, BSc, MSc (Dal) PhD (Western Australia)
Kockwood*, Cheryl, BA Hon (UNB), LLB (UBC), MLB (Arizona)
Maloney*, Cheryl, BA, LLB (Dal)
Martin*, Catherine Anne, BFA
Meader*, Jane, BA (CBU), BEd (StFX)
Paul*, Elizabeth, BEd (UNB)
Peck*, Josephine, BA, BEd, MEd (StFX), BSW (Dal)
Prosper*, Paul J., BA(CBU), LLB (Dal)
Toney*, Denise, BA (CBU), BEd (StFX), MEd (StFX)
White, Lloyd, BACS (CBU, MA (Acadia)
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GLOSSARY

Academic Year - The phrase that describes the period from September to April. Also referred to as the fall/winter term.

Admission - Acceptance of a candidate for enrolment in a specified program.

Audit - Standing of students who are registered in one or more courses, exclusively on a not-for-credit basis, and without completing assignments or examinations.

Baccalaureate - Related to a bachelor's degree.

Bachelor's Degree (Baccalaureate Degree) - An undergraduate university degree program.

Calendar - An annual publication of academic regulations, schedules, programs of study and course descriptions.

Calendar of Events - List of important dates for things like admissions, registration, voluntary withdrawal, fee deadlines, first and last day of classes, start and end dates for exams, etc.

Chair - Head of an academic department.

Concentration - A specific area or discipline of study in a degree program.

Convocation - The ceremony that occurs in the spring and fall at which degrees, diplomas and certificates are conferred on the graduates.

Cooperative Education Program (Co-op Program) - A program that formally integrates academic studies with work experience in employer organizations.

Core Course - A core course is listed in a degree program and is a base requirement for all students in that program.

Course Load - The number of courses a student is registered in while in attendance in a given academic term.

Credit - A credit is a unit of academic measurement; six credits are awarded for a full course. Three credits are awarded for a half-course.

Credit Course - A course that carries credit toward a degree, diploma or certificate.

Cross-listed Courses - Two courses are cross-listed if they are the same course listed under two different subject codes, usually by two different academic units. (E.g., The same course could be offered to students in Chemistry or Engineering. The course content would be identical and students from the two disciplines would attend the same class, but the course would be listed in two different places in the list of courses. Cross-listed courses are identified as such in the list of course descriptions.)

Dean - The chief academic and administrative officer of a school.

Deferred Exam - An exam may be deferred for medical or other serious reason, at the discretion of the instructor and the Dean of the school.

Degree Audit Report - A record of a student's progress in a specific program.

Department - The basic organizational unit responsible for the academic functions in a field of study. E.g., The Biology Department falls under the School of Science & Technology; the Anthropology and Sociology Department is under the School of Arts and Social Sciences.

Discipline - The university equivalent of a "subject" in high school. E.g., math, biology, English, history, etc.

Elective - An elective is a course acceptable to complete a program but chosen at the discretion of the student.

Faculty - A generic term for professors or instructors.

Fall Term - The period of the academic year that runs from September through December.

Fall/Winter (September-April) - The academic year that runs from September through April.

Full Course - A course with a weighting factor of six credits that normally extends over two consecutive terms.

Full-Time Students - Students who are registered for credit in the equivalent of three full courses (18 credits) over the Fall/Winter term.

Half Course - A course with a weighting factor of three credits that normally extends over one term.

Honours or Major Program - A four-year concentrated course of study under the supervision of a department. Requires varying levels of academic achievement, depending on the degree.

Interdisciplinary Course - A course that is offered jointly by two or more departments, not necessarily in the same school.

Minor - A secondary area of concentration in a major program.

Plagiarism - The act of representing the intellectual work of others as one's own.

Prerequisite - The preliminary requirement, usually another course, which must be met or waived before a course can be taken.

Program - An approved series of courses leading to a degree, diploma or certificate.

Registration - The process of selecting courses that are to be taken by a student in a term, or two terms, in accordance with the relevant program specifications for a degree or diploma, and must be accompanied by the minimum payment.

School - An administrative subdivision within the university responsible for programs and courses relating to common fields of study and academic disciplines. E.g., School of Arts & Social Sciences, School of Business, School of Graduate & Professional Studies, School of Science & Technology.

Spring/Summer (May-August) - A period of study during the months of May through August.

Spring Session - The session that runs from May through June.

Summer Session - The session that runs from July through August.

TOEFL - Test of English as a Foreign Language.

Transcript - A statement of the student's entire official academic record bearing the original signature of the Registrar and the official seal of the University.

Transfer Credit - Course credit which an institution accepts towards a degree, diploma or certificate awarded for courses taken at another post-secondary institution.

Undergraduate - The term used for the first degree taken at university. Also, refers to students taking their first degree.

Winter Term - The period of the academic year that runs from January through April.

Withdrawal - Voluntary formal cancellation of registration by a student