

President's Message

Welcome to UNBC!

The University of Northern British Columbia offers you a unique educational opportunity.

The Prince George campus, located in a magnificent setting atop Cranbrook Hill facing toward the McGregor Mountains, has been sensitively designed by leading architects to reflect the natural beauty of the BC interior, to support innovative teaching, and to meet the educational, social and recreational needs of students. This beautiful new campus has excellent learning facilities and the capacity to accommodate 550 students in residence.

As a new and a small university, UNBC also offers the vitality that comes from a relatively young faculty of accomplished scholars recruited worldwide, innovative academic programming, and a commitment to make education a personal, purposeful, and enriching experience for each and every student. The University offers you a wide range of degree programs, and the opportunity in particular programs to combine study and work through co-operative arrangements or internships.

UNBC has achieved remarkable success by any measure. It is already in the top half of the class of small, primarily undergraduate Canadian universities as measured in the Macleans magazine survey. Moreover, a survey of 1996 graduates from BC universities put UNBC graduates at the top in terms of both employment success and satisfaction with their undergraduate degree studies.



UNBC is committed to serving all of northern British Columbia. This means that a significant number of courses and several complete degree programs will be available at regional campuses throughout central and northern BC, often in conjunction with the community colleges. UNBC particularly welcomes adult, part-time learners to its regional courses, as well as to those offered on the Prince George campus.

Likewise, UNBC is committed to fostering university education among the First Nations people of central and northern BC.

We invite you to read this calendar to discover the breadth of courses and programs—undergraduate, graduate and professional—that UNBC has to offer. Through the Office of the Registrar we will be pleased to offer you advice and guidance in choosing the program that best fits your needs and interest.

As British Columbia's small university alternative, UNBC offers you a special opportunity to get involved. You will get to know your professors, have access to excellent educational and research facilities, be able to join a wide range of student clubs and activities, and have unique opportunities for outdoor recreation.

I welcome you to UNBC and hope to greet you personally as a UNBC student.

Charles Jago
President

2000 – 2001 Calendar

Effective date of information, unless otherwise noted: September 1, 2000.

The University of Northern British Columbia reserves the right to make additions, deletions, changes, or modifications to its policies, practice, procedures, tuition fees, course availability, delivery mode, schedules, or program requirements at any time without prior notice.

The publication of information in the Calendar does not bind the University to the provision of courses, programs, services, or facilities as listed herein.

Students are responsible for informing themselves of the University's procedures and policies and the specific requirements associated with the degree or certificate sought.

EVERY STUDENT ACCEPTED FOR REGISTRATION WITH THE UNIVERSITY OF NORTHERN BRITISH COLUMBIA SHALL BE DEEMED TO HAVE AGREED TO BE BOUND BY THE REGULATIONS AND POLICIES OF THE UNIVERSITY AND OF THE PROGRAM IN WHICH THAT STUDENT IS ENROLLED.

The University of Northern British Columbia specifically reserves the right to exercise its sole, absolute, and unfettered discretion in admitting individuals to the University, its programs, or courses.

The University of Northern British Columbia shall incur no liability for loss or damage suffered or incurred by any student or third party as a result of delay, alteration, or termination of services, courses, programs, tuition, or fees by reason of: acts of God, fire, strikes, lock-outs, damage to University property, inability to procure or produce materials, civil unrest or disobedience, financial exigency, or any other cause of any kind.

The University of Northern British Columbia is a smoke-free institution. Smoking may be permitted in designated areas only.

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The 2000-2001 *University of Northern British Columbia Undergraduate Calendar* was prepared by the Office of the Associate Vice President of Student Services.

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Mission Statement

Mission

The University of Northern British Columbia—founded as “a university in the north, for the north”—holds as its mission to improve the quality of life in its region, the province, and beyond, by attaining the highest standards of undergraduate and graduate teaching, learning, and research. UNBC is committed to serving a vast region by building partnerships and by being innovative, resourceful, and responsive to student and community needs. In the spirit of its Carrier motto—“ ‘En cha huná”—UNBC celebrates diversity and intends to reflect and to foster the rich cultural diversity of northern British Columbia and its peoples.

UNBC recognizes that the strength of the University is its people and that the most important measure of its success is the educational enrichment of its students. The University

strives to offer all its people—students, staff and faculty—a healthy, safe, open, friendly, supportive, consultative and stimulating environment conducive to individual intellectual growth, personal fulfillment and career progress. UNBC embraces the principles of academic freedom and responsibility, education for its own sake, integrity, inclusion, respect for others, equity, fairness, operational efficiency, and public accountability.

Values

Our values are those select points of belief held in the highest regard at UNBC, and are meant to guide the University, and each member of the University community, in their actions and in fulfillment of their ambitions.

• Learning

Learning is a continuous lifelong process, a necessary part of human development. UNBC is about learning—about providing opportunities to learn and assisting and enabling all those who come to the University in achieving personal enrichment through learning. UNBC champions intellectual freedom, academic inquiry, learning for its own sake, access to information, and the development of new knowledge. UNBC supports research initiatives and the integration of research and teaching so that our students can both profit from, and participate in, the development of new knowledge and new discoveries.

• Interdisciplinarity

Scholarship which spans disciplines and cultures, and programing which cuts across organizational units are hallmarks of UNBC. Removal of the barriers to learning, which traditional disciplinary and cultural boundaries often present, is what shapes interdisciplinarity at UNBC. While



such areas as Environmental Studies, First Nations Studies, International Studies, Northern Studies, and Women's and Gender Studies underlie the University's commitment to interdisciplinarity, the commitment transcends specific programs and represents the way the University conducts its academic business.

• Innovation

UNBC, as a new university, approaches the complexities of its time with responsive and innovative approaches to education. UNBC offers a modern curriculum and utilizes advanced technologies and the most innovative pedagogical methods in teaching. Much of the University's research is at the intellectual frontier, with the ultimate goal of generating tangible returns to society.

• Excellence

UNBC strives for excellence in the fundamental roles of teaching, research and student service. The University recognizes that the educational enrichment of its students is the ultimate measure of excellence. UNBC is also committed to exemplary standards in service quality, operating effectiveness, and public accountability.

• Responsiveness

UNBC's program and course offerings are based on the needs and preferences of students, the community and society. In addition, the University is committed to providing regional students with a standard of educational and student services equivalent to that of its central campus. Through its teaching and research, the University continues to contribute to the social, cultural and economic development of the north, and to an improved environment and health for its people.

• Leadership

UNBC aspires to intellectual and moral leadership in society. This is a role which the University must earn—through the rigorous development of its ideas, through the integrity of its actions, through the trust merited by its officials, through the effectiveness of the services it provides, and through the institutional respect it commands within the community. The University seeks to develop and foster leadership qualities in its students, staff, and faculty.

• Diversity and Equity

The University is committed to promoting and increasing diversity among its students, staff, and faculty and to eliminating barriers to the free flow of

ideas from the diverse cultures, disciplines, and fields of study which make up UNBC. UNBC celebrates diversity—especially so in its relationship with the aboriginal peoples of the northern region. UNBC is also committed to ensuring fairness in matters relating to gender and social equity, particularly with respect to academic opportunity.



Our Story

UNBC has unusual origins. In 1987 a group of business and professional leaders came together and formed the Interior University Society. This Society commissioned the 1988 study *Building a Future of Excellence: A University of Northern British Columbia*. Support for the creation of a northern university came from every city, town, village and regional district in northern BC. Sixteen thousand individuals each paid at least \$5 to support a brief to government arguing the case for a new university. After receiving this brief, the provincial government funded a further report which, in December 1989, recommended the creation of a self-governing, degree-granting institution in northern British Columbia. The recommendations were accepted, and in June 1990, *The University of Northern British Columbia Act* was passed, with all-party support.

Geoffrey Weller, UNBC's Founding President, joined the University in January 1991, and in April 1992 Premier Harcourt led the sod-turning ceremony for the Prince George campus. The first Convocation ceremony was held in May 1992, and UNBC's first students—taking part in the "QuickStart" program—began their studies in September 1992. Six students from this program graduated in May 1994.

The Prince George campus was officially opened on August 17, 1994 by Her Majesty the Queen Elizabeth II, and the first full day of classes took place on September 8, 1994.

In the first full year, there were approximately 1,400 students—1,300 undergraduates and 100 graduate students—at the University, and nearly 300 full-time faculty and staff. Today, UNBC is home to more than 3,400 students and over 450 faculty and staff.

UNBC has a commitment to all aspects of university activities, including service, teaching and research. It has a particular commitment to the service of students. UNBC ensures that its courses have practical benefits for students and their future employment, and students can benefit from relevant work placements. The University offers, through the Office of Co-operative Education, a substantial program of Co-operative Education and Internships.

UNBC has a mandate to pay particular attention to the needs of northern British Columbia, and the University's programs and research are designed so that they are of particular relevance to the region.

Through the International Centre, UNBC capitalizes on its northern setting and has established links with other universities in northern regions. Exchange agreements have been arranged with members of the Association of Circumpolar Universities, including universities in northern Scandinavia, and Russia.



The University has also taken advantage of its location on the Pacific Rim and of the fact that some of the major exports of northern BC go to Pacific Rim nations. Faculty and student exchanges have been established with a number of universities in this major trading area.

The University's programs and methods of academic organization ensure that an interdisciplinary approach is fostered wherever possible. Key programs that have been developed along interdisciplinary lines are Environmental Studies, First Nations Studies, International Studies, Northern Studies and Women's Studies. First Nations History, for instance, is taught within the History program in the Faculty of Arts and Social Sciences. Students are thus able to take such courses either within the History program, or as part of a multidisciplinary First Nations Studies program.

UNBC

University Colours

The University's main colour, which was chosen in 1990 when UNBC was first being planned, is green—eminently suitable to a university located in a major forestry region, with a strong presence in Environmental Studies. The second colour, gold, was added in 1991, to provide contrast. Gold is often used in the "N" of the UNBC logo, where, according to original designers, it can be perceived as "a bolt of northern lightning."

The Coat of Arms

The University's Coat of Arms comprises several elements. The shield, which is divided into UNBC's colours of green and gold, contains three elements. The open book, which is a traditional symbol of learning, is flanked by two ravens, which are hardy, resident birds of the north and of open spaces, symbols of wisdom in some First Nations traditions, and recognized as amongst the most intelligent of birds by ornithologists. Below these elements is a young coniferous tree with roots, which symbolizes growth, and represents both the dominant flora of the north and the backbone of the northern economy.



The crest is created from a wreath surmounted by the maple leaf symbolizing Canada, dogwood flowers symbolizing British Columbia, and snowflake crystals symbolizing the north. The crest is a salmon, which is the symbol on the base of the University's mace/talking stick, and is used there as an indication of all the people of the region. The salmon, like the orca in the compartment, was created by Ron Sebastian of New Hazelton specially for the coat of arms.

To the left of the shield is a Kermodei bear, a rare subspecies of the black bear found only in the northwest region of British Columbia. To the right of the shield is the woodland caribou, a distinctive mammal of the central interior and northeast region. Each carries a wreath comprised of conifer branches with cones—again indicating a definitive element of much of northern British Columbia.

The compartment is the base on which the supporters stand. The Kermodei stands amongst mountains and trees which are distinctive of much of the region. To the right is a wheat field, distinctive of the Peace River region. Beneath the mountains and wheat field is a depiction of the ocean and orca, indicative of the Haida Gwaii (Queen Charlotte Islands) and coastal regions.

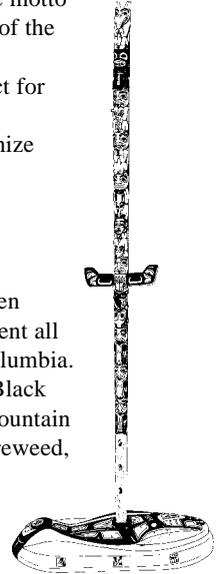


The Motto

The motto, 'En cha huná (pronounced "enn chah huhNAH") is a saying of Carrier elders, with a direct translation "he/she also lives." The saying would be used by an elder when reminding somebody, critical of another, that the individual was also a living being, with a voice and a viewpoint. The motto encapsulates much of the spirit of academic freedom, of respect for others, and the willingness to recognize different perspectives.

The Mace

The mace/talking stick includes thirteen traditional Indian crests, which represent all the tribes/clans of northern British Columbia. They are, from top to bottom: Wolf, Black Bear, Beaver, Wolverine, Caribou, Mountain Goose, Frog, Raven, Thunderbird, Fireweed, Killer Whale, Owl, and Eagle. In the centre is an additional human face representing all peoples. The mace/talking stick rests in a base of red cedar, carved in the form of a salmon. The mace, ceremonial chairs and the doors to the University Senate were carved by Ron Sebastian.

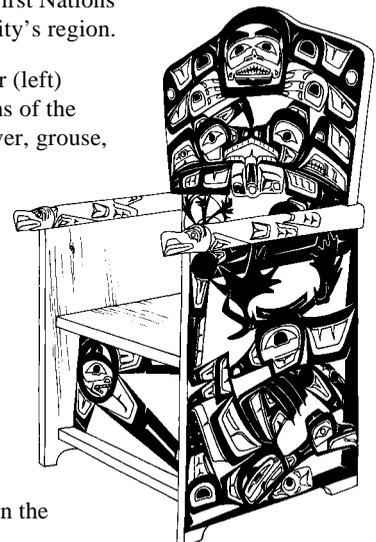


The Ceremonial Chairs

The chairs include, at top and bottom, a human mask and sun, representing mankind but particularly students and counsellors, while the other symbols again represent the various First Nations peoples in the University's region.

The Chancellor's Chair (left) includes representations of the thunderbird, frog, beaver, grouse, fireweed, owl, eagle, and killer whale, with arm rests carved in the shape of a wolf.

The President's Chair (right) includes representations of the grizzly bear, wolf, caribou, black bear, crow, frog, moose, and mountain goose, with arm rests carved in the shape of a raven.



Degrees

Undergraduate Programs

Bachelor of Arts

Majors offered:

BA (General)
Anthropology
Economics
English
Environmental Studies
First Nations Studies
Geography
History*
International Studies*
International Studies/Political Science Joint Major
Northern Studies
Political Science
Resource-Based Tourism
Women's Studies

Bachelor of Commerce

Majors offered:

Accounting
Finance
General Business
International Business
Marketing

Bachelor of Science

Majors offered:

BSc (General)
Biology/Chemistry Joint Major
Chemistry/Computer Science Joint Major
Chemistry/Mathematics Joint Major
Chemistry/Physics Joint Major
Computer Science/Mathematics Joint Major
Computer Science/Physics Joint Major
Mathematics/Physics Joint Major
Biology
Chemistry
Computer Science
Environmental Planning
Environmental Science
Geography
Mathematics
Natural Resources Management – Forestry
Natural Resources Management – Resource Recreation
Natural Resources Management – Wildlife and Fisheries
Physics
Psychology*

Bachelor of Science in Nursing Programs:

Northern Collaborative Baccalaureate Nursing Program
Post-Diploma Baccalaureate Nursing Program

Bachelor of Social Work

Minor Programs

Anthropology
Applied Mathematics
Biochemistry
Biology
Chemistry
Economics
English
Environmental Science
Environmental Studies
Environmental Physics
Environmental Planning
First Nations
Geomorphology
History
Human Geography
International Studies
Mathematics
Natural Resource Management – Resource Recreation
Northern Studies
Philosophy
Physical Geography
Physics
Political Science
Psychology
Resource-Based Tourism
Russian Studies
Women's Studies

Certificate Programs

Aboriginal Community Resource Planning
First Nations Public Administration
General First Nations Studies
Métis Studies
Nisga'a Studies
Public Administration
Rural and Northern Nursing
Traditional Environmental Knowledge

*Honours Programs

Graduate Studies

Graduate Programs

ARTS

First Nations Studies
 Gender Studies
 History
 Interdisciplinary MA (by special arrangement)
 International Studies
 Political Science

SCIENCES

Mathematical, Computer, and Physical Sciences (MCPS)

- Chemistry
- Computer Science
- Mathematics
- Physics

Natural Resources and Environmental Studies

- Biology
- Environmental Studies
- Forestry
- Geography
- Resource Recreation and Tourism

Psychology

PROFESSIONAL

Community Health Science
 Education
 Forestry
 Social Work

Permission for Undergraduates to Take Graduate Course Work

Students in their final year of a Bachelor's degree program at the University of Northern British Columbia who have a grade point average of at least 3.33 (B+) in the last 30 credit hours of course work attempted may be permitted to register in a maximum of six credit hours of graduate courses on the recommendation of the program concerned and with the consent of the Dean of Graduate Studies. Such courses cannot be used for credit if the student subsequently registers in a graduate program if they have been used for undergraduate credit.

This policy gives academically strong undergraduate students the opportunity to experience graduate level instruction without commitments being made by either the

student or the University about admission into graduate programs, or academic credit being awarded for the courses if a student is subsequently admitted to a graduate program.

Please see the Graduate Studies Officer for further information.

Simultaneous enrolment in a graduate program and an undergraduate or certificate program is not permitted.

Research at UNBC

The University of Northern British Columbia prides itself on being a small institution with a large research mandate and presence. Our faculty members have demonstrated themselves to be highly competitive in securing support for their research, and we are very proud of the achievements of the graduate students who have registered and graduated in our very short history. The principal research values of UNBC are: excellence, innovation, social and economic relevance, and interdisciplinarity. The goals of research at UNBC are to contribute to the advancement of knowledge, and to stimulate economic growth and diversification in ways that are sustainable and that have widespread social support. The research of faculty members and their students, both undergraduate and graduate, give expression to these values and goals, and we are gratified at the impact that their work has already had in the international community as well as in the local and regional communities that are the constituency of the University.

Graduate students have opportunities to engage in research which is at the leading edge of the disciplines, which is relevant to the communities of the north and to the environment, and which is very well supported by granting agencies at the national and the provincial levels. The research programs of students and faculty often occur in partnership with community groups, industry, government agencies, and other interested parties. This is particularly true of the disciplines which engage heavily in research on issues that are of direct relevance to the rural and remote communities, their supporting industries and social structures, and the boreal and northern regions. The graduate students who join UNBC have unique opportunities to engage in research with leaders in their disciplines and in research which has a large and positive societal impact.

Admission to Graduate Studies

Please contact the Graduate Studies Officer at the Office of the Registrar for more information on admission to Graduate Studies. Also refer to the *UNBC Graduate Calendar*.

2000 – 2001 Sessional Dates

2000 Fall Semester

August

27 Sunday Student Success Week begins

September

1 Friday Student Success Week ends

4 Monday Labor Day, University closed

5 **Tuesday** **First day of classes, Fall Semester**

All Fall Semester fees due

18 **Monday** **Last day to add/drop Fall Semester courses without financial penalty**

October

9 Monday Thanksgiving, University closed

17 **Tuesday** **Last day to withdraw from Fall Semester courses without academic penalty**

November

6 Monday *Application deadline for undergraduate studies for the Winter Semester

11 Saturday Remembrance Day, University closed

13 Monday University closed in lieu of Remembrance Day

December

4 Monday Last day of classes, Fall Semester

6 Wednesday First day of exam period, Fall Semester

15 Friday Last day of exam period, Fall Semester

25 Monday Christmas Day, University closed

26 Tuesday Boxing Day, University closed

27 Wednesday University campus and access roads closed (maintenance shutdown)

2001 Winter Semester

January

1 Monday New Years Day, University closed

2 Tuesday Orientation Day

3 **Wednesday** **First day of classes, Winter Semester**

All Winter Semester fees due

16 **Tuesday** **Last day to add/drop Winter Semester courses without financial penalty**

February

13 **Tuesday** **Last day to withdraw from Winter Semester courses without academic penalty**

19 Monday Winter Break, no classes February 19 – 23

28 **Wednesday** **Deadline for application to the Bachelor of Social Work Program for the Fall Semester**

March

1 Thursday *Early application deadline for undergraduate studies for the Fall Semester

*Application deadline for undergraduate Spring/Summer Semester

Deadline to complete Application for Graduation

21 Wednesday UNBC Career Fair

31 **Saturday** **Deadline for application to the Northern Collaborative Baccalaureate Nursing Program**

April

2 Monday Application deadline for UNBC administered scholarships and bursaries

6 Friday Last day of classes, Winter Semester

10 Tuesday First day of exam period, Winter Semester

13 Friday Good Friday, University closed

16 Monday Easter Monday, University closed

20 Friday Last day of exam period, Winter Semester

2000 – 2001 Sessional Dates

2001 Spring/Summer Semester (Including Spring Intersession and Summer Intersession)

May

1	Tuesday	First day of classes Spring/Summer Semester and Spring Intersession All Spring/Summer Semester and Spring Intersession fees due
4	Friday	Last day to add/drop Spring Intersession courses without financial penalty
11	Friday	Last day to add/drop Spring/Summer Semester courses without financial penalty
18	Friday	Last day to withdraw from Spring Intersession courses without academic penalty
21	Monday	Victoria Day, University closed
25	Friday	Convocation

June

11	Monday	Last day of classes, Spring Intersession Last day to withdraw from Spring/Summer Semester courses without academic penalty
13	Wednesday	First day of exam period, Spring Intersession
18	Monday	Last day of exam period, Spring Intersession Summer Break begins for Spring/Summer Semester, no classes

July

1	Sunday	Canada Day, University closed
2	Monday	University closed in lieu of Canada Day
3	Tuesday	First day of classes, Summer Intersession All Summer Intersession fees due Classes resume for Spring/Summer Semester Recommended application deadline date for BC Student Assistance program (BC student loans)
7	Saturday	University closed (maintenance shutdown)
9	Monday	Last day to add/drop Summer Intersession courses without financial penalty
16	Monday	*Application deadline for undergraduate studies for the Fall Semester, including the Northern Advancement Program
23	Monday	Last day to withdraw from Summer Intersession courses without academic penalty

August

6	Monday	BC Day, University closed
14	Tuesday	Last day of classes, Summer Intersession and Spring/Summer Semester
16	Thursday	First day of exam period, Summer Intersession and Spring/Summer Semester
21	Tuesday	Last day of exam period, Summer Intersession and Spring/Summer Semester

*Applications for admission received after the posted deadline will be processed as time permits. International students are encouraged to apply for admission as early as April 2 for the Fall Semester and June 4 for the Winter Semester.

Sessions

Academic Year

The academic year extends from September 1 to August 31.

Fall Semester

The Fall Semester runs from early September to mid December.

Winter Semester

The Winter Semester runs from early January to late April. Most of the University course offerings are available during the day and courses are available in the evening during the Fall and Winter Semesters.

Summer Semester

The Summer Semester runs from May to August with a two week break from June 18 to July 3, and includes Spring and Summer Intersessions.

Undergraduate Admissions

How to Apply

To apply for admission to UNBC, please submit a completed application form, including all required documentation and fees, to the Office of the Registrar.

To receive an application form, contact the Office of the Registrar by

- phone: 1 (250) 960-6300
- toll free in Canada: 1-888-419-5588
- e-mail: registration-info@unbc.ca

On-line application is available on the internet at www.unbc.ca.

Application Deadlines

General Undergraduate

Fall Semester July 14, 2000
 Winter Semester November 6, 2000

International Students Undergraduate

Fall Semester April 2, 2000
 Winter Semester June 4, 2000

Please note that applications will be accepted after these dates and processed accordingly.

Where to Look for Undergraduate Admission Requirements:

	British Columbia	Canada	International
* High School	BC/Yukon Grade 12 p. 13 Special Early Provisional p. 13 Early Provisional p. 13 Headstart Entry p. 14 International Baccalaureate (IB) p. 14 Advanced Placement (AP) p. 14 Adult Basic Education (ABE) p. 15 General Education Diploma (GED) p. 15	Alberta and NWT p. 15 Saskatchewan p. 15 Manitoba p. 15 Ontario p. 16 Quebec p. 16 Quebec Grade 12 p. 16 New Brunswick p. 16 Prince Edward Island p. 16 Nova Scotia p. 16 Newfoundland p. 16	See p. 20
Post Secondary	Community Colleges p. 17 University Colleges p. 17 Institutes of Technology p. 18 Universities p. 18	Community and University Colleges p. 17 Quebec p. 17 Institutes of Technology p. 18 Universities p. 18 CEGEP p. 15 CAAT p. 18	
Other Admission Categories	Mature p. 18 Special Entry p. 18 Interest Only p. 19 Audit Only p. 19 Visiting Students p. 19 Second Undergraduate Degree p. 19		

* In addition to the overall average required for admission, a passing grade is required for each high school course contributing to admission.

Please note: 1. The University of Northern British Columbia reserves the right to limit enrolments in any Faculty, program or course.
 2. If your mother tongue is not English, please refer to page 173.

High School Admissions

Admission Requirements for Applicants from BC and Yukon High Schools

Successful completion of an academic grade 12 program leading to graduation with a minimum BC/Yukon high school C+ (65%) average calculated on the basis of the five best grade 12 courses from the list below:

- English 12
- Three grade 12 courses, selected from the following:
 - Applications of Mathematics
 - BC First Nations Studies
 - Biology
 - Calculus
 - Chemistry
 - Comparative Civilizations
 - English Literature
 - French
 - German
 - Geography
 - Geology
 - History
 - Japanese
 - Latin
 - Law
 - Mandarin
 - Physics
 - Principles of Mathematics
 - Punjabi
 - Spanish
 - Technical and Professional Communications 12
 - Writing
- A fifth grade 12 course. This course can be any grade 12 course taught in the secondary school, including: locally developed courses (e.g. First Nations languages), career preparation courses (Construction 12, etc.), or others (Art 12, Band 12, Information Technology 12, Communications 12, etc.)

Special Early Provisional Admission

Students registered in grade 12 at a BC high school, planning to attend UNBC in the September immediately following graduation are encouraged to apply for Special Early Admission no later than the end of February. A decision will be made based on the student's self declared Grade 11 and 12 grades and, no later than the end of February, a provisional offer of admission will normally be made to all applicants who meet or exceed the minimum grade point average and course requirements. The conditions



associated with special early provisional admission are that the applicant's academic average remain at or above the minimum, that all required courses are successfully completed and that graduation requirements are satisfied. These conditions will be checked in August upon receipt of the final marks from the Ministry of Education.

The University reserves the right to withdraw a provisional offer of admission if the above conditions are not met.

Early Provisional Admission from a BC High School

Students registered in grade 12 at a BC high school, planning to attend UNBC in the September immediately following graduation, are advised to apply for Early Admission (currently before the end of February). All applicants who do this and notify their school counsellor of their application to UNBC will automatically have their interim grade 12 marks submitted to UNBC by the Ministry of Education. A provisional decision will be made based on these grades and a provisional offer of admission will be made in mid-May to all applicants who meet or exceed the minimum grade point average and course requirements. The conditions associated with early provisional admission are that the applicant's academic average remain at or above the minimum, that all required courses are successfully completed and that graduation requirements are satisfied. These conditions will be checked in August upon receipt of the final marks from the Ministry of Education. Where a student does not satisfy the three conditions, the University reserves the right to withdraw the provisional offer of admission.

■ BC High School Transcripts

If you require official high school transcripts, contact your school or the Ministry of Education as follows:

- request a transcript by stating:
 - a) your full name, address and signature
 - b) your year of graduation
 - c) your date of birth
- the charge for the first transcript is \$10; additional transcripts ordered at the same time can be obtained for \$5 each
- payment must be included with the request, by either cheque or money order (payable to the Minister of Finance)
- 24 hour service: the charge for the first transcript is \$25; each additional transcript ordered at the same time costs \$5
- send requests for transcripts to:
Ministry of Education, Skills and Training
Evaluation and Accountability Branch
PO Box 9143 Stn Prov Govt
Victoria, BC V8W 9H1
General Information Phone: (250) 356-7269

■ HeadStart Entry from a BC High School

Outstanding students who have completed BC grade 11, can demonstrate an exceptional academic record, and can provide evidence of above average maturity may apply for admission to UNBC. In many cases this may mean concurrently registering in one or two first year introductory UNBC courses while completing grade 12. However, in exceptional cases, these applicants may be admitted to study as a full-time first year student at UNBC.

To apply for HeadStart entry, the application must be accompanied by an autobiographical letter indicating the applicant's areas of interest and reasons for wishing to attend UNBC, along with letters of recommendation from the high school principal and at least one teacher or counsellor from the school, and a complete high school transcript. Questions and correspondence should be directed to the Office of the Registrar.

■ International Baccalaureate

Students who are awarded an International Baccalaureate Diploma may be awarded up to 30 credit hours of transfer credit upon receipt of the official transcript from the International Baccalaureate headquarters. Students who are awarded the diploma must have an overall standing of four, with no course below a three. Diploma students are required to present three Higher level subjects and three Subsidiary level subjects in order to be eligible for transfer credits.

Students who are awarded the International Baccalaureate Certificate must have a grade of four in each Higher level

subject to be eligible for individual course transfer credit. Subsidiary level subjects are not eligible for transfer credit on a certificate program.

A list of acceptable IB courses is available in the *BC Transfer Guide*.

■ Advanced Placement

Students who take the College Board Advanced Placement courses in high school may be awarded transfer credit upon receipt of the official exam results from the College Board. Courses completed with a grade of four or above will be awarded transfer credit. Students who have completed AP courses with a grade of three may be considered for Advanced Standing in a first year course. A listing of acceptable AP courses for transfer credit is available in the *BC Transfer Guide*.

■ UNBC – UBC – SFU – UVIC Calculus Examination Certificate

All prospective UNBC, UBC, SFU and UVIC students who have completed or who are registered in a calculus course in secondary school are eligible to write a Calculus Challenge examination. Students who pass this will be awarded a UNBC – UBC – SFU – UVIC Calculus Examination Certificate. These students will be able to obtain credit for MATH 100 at UNBC, or MATH 100 at UBC, or MATH 151 at SFU, or MATH 100 at UVIC with the mark obtained on the challenge examination appearing on their transcripts, if requested, after registering at one of the four universities.

Application must be made to the Mathematics Department hosting the examination in a given year to write the Calculus Challenge examination, prior to entering one of the four universities from secondary school. Each year one of the universities hosts the examination. Only one attempt is permitted. After registering at one of the universities, a student may apply to the Mathematics Department at that university to receive credit for the Calculus Challenge Examination, as shown on the UNBC – UBC – SFU – UVIC Calculus Examination Certificate. The student's transcript will then show Challenge credit for MATH 100 at UNBC, or MATH 100 at UBC, or MATH 151 at SFU, or MATH 100 at UVIC, with the grade obtained. Grade conversions are noted on the Certificate for grades at each of the four universities. Students already eligible for transfer credit because of high AP or IB scores will keep this eligibility regardless of their examination score and can waive the examination score and/or credit.

Registration

Applications to write the Calculus Challenge examination must be received by March 20 for the April examination, by May 15 for the June examination, or by July 17 for the

August examination. Applications should be made to the Mathematics department hosting the examination in a particular year. In 2000, SFU will co-ordinate the examination. In 2000, a non-refundable fee of \$77.00 must accompany the application to SFU, payable to Simon Fraser University.

Examination

In April and June, the examinations will take place at participating high schools or at the host university, and in August, the examination will be held at the host university: SFU in 2000. SFU's examination is a 3 hour examination.

A course syllabus and samples of recent examinations and their solutions are available from the Mathematics Department of SFU (for students writing during 1999/2000) for a cost of \$15 for Canadian addresses and \$20 for non-Canadian addresses (GST and postage included).

Further inquiries about writing the UNBC – UBC – SFU – UVIC Calculus Examination Certificate should be directed to:

- Math Challenge 151, Department of Mathematics, Simon Fraser University, Burnaby BC V5A 1S6; Telephone (604) 291-3332; Fax (604) 291-4947. SFU hosts the examination in 2000. *Only contact SFU if you plan to write in 2000.*

■ Entry from the BC Adult Basic Education (ABE) Provincial Diploma Program

Applicants may enter UNBC after successful completion of the Provincial Adult Basic Education (ABE) diploma. A minimum C+ average is required based on an applicant's performance in English, Math (algebra) and at least one Science course at the advanced level.

■ General Education Diploma

Applicants who have completed the General Education Diploma (GED) will be considered on an individual basis. A minimum overall average of 58.5% on the GED will be required for consideration.

■ Admission from Secondary Schools and CEGEP in Other Canadian Provinces

Alberta and the Northwest Territories

Successful completion of an academic grade 12 program that leads to graduation and includes at least five courses with an overall 65% average selected as follows:

- English 30
- at least three additional courses selected from the following:
Biology 30, Chemistry 30, Language 30, Language 31, Math 30, Math 31, Physics 30, Science 30, Social Studies 30, World Geography 30, World History 30
- additional level 30 or 31 courses necessary for the successful completion of grade 12

Saskatchewan

Successful completion of an academic level three (grade 12) program that leads to graduation and includes at least seven academic courses with an overall 65% average (five of which are at the 30 level) selected as follows:

- English A30 and B30
- Math A30, or B30, or C30
- at least two additional courses numbered 30 or 30H selected from the following subjects: Biology, Calculus, Chemistry, Français A or B, French, Geography, History, other languages, Mathematics, Physics
- additional acceptable courses necessary to graduate

Manitoba

Successful completion of an academic Sr 4 level (grade 12) program that leads to graduation and includes at least five courses with an overall average of 65% selected as follows:

- English 40S
- three or more of the additional courses should be selected from the following: Biology 40S, Chemistry 40S, Computer Science 40S, Français 40S, Geography 40S, History 40S, Language 40S, Law 40S, Mathematics 40S, Native Canadian Languages 40S, Physics 40S, Pre Calculus 40S, Social Science 40S/ World Issues 40S, Western Civilization 40S
- one additional course from above or another area at the 40A (advanced), 40G (general), or 40S (specialized) level and any further work necessary to graduate

Ontario

Successful completion of the OSSD (or OSSHGD) including six OAC's and/or grade 13 courses with an overall 65% average including:

- OAC English (Language and Literature recommended)
- three or more OAC's selected from: Classical Civilization, Classical Studies, English, Français, French, other languages, Algebra and Geometry, Calculus, Finite Mathematics, Biology, Chemistry, Computing Science, Physics, Geography, History, and

ADMISSIONS

not more than one of Economics, Law, Politics, Sociology, Drama, Music or Visual Art

- additional OAC courses necessary to complete the OSSD

Note: UNBC does not award transfer credit or advanced standing/course waivers or exemptions on the basis of OAC courses.

Quebec

Successful completion of at least 12 acceptable university preparatory CEGEP courses with a minimum overall average of 70%, selected as follows:

- at least two pre-university English courses
- 10 additional pre-university courses deemed appropriate for entry into the academic program of choice

Students who complete more than 12 pre-university CEGEP courses with a minimum grade of 70% in each course may receive up to 30 credit hours of transfer credit.

Quebec Grade 12

Applicants who successfully complete a Quebec grade 12 program with an overall 65% average must present:

- English
- at least three additional university preparatory courses selected from Mathematics, Sciences, Languages, Literature, Social Sciences, History, Geography
- additional academic subjects required for successful graduation

New Brunswick

Successful completion of an academic (college preparatory) program that leads to graduation with an overall 65% average and including at least six courses as follows:

- English 121 or 122
- at least three additional grade 12 academic courses selected from Advanced Mathematics, Biology, Canadian Literature, Chemistry, Computer Science, English, Environmental Science, Français, French, Geography, History, Mathematics, Physics
- additional academic course(s) necessary to successfully graduate

Prince Edward Island

Successful completion of an academic or advanced academic program that leads to graduation with an overall 65% average and including:

- English 621
- at least three additional courses numbered 621 selected from Biology, Chemistry, Français, French, Geography, History, Mathematics, other languages, Physics
- additional academic course(s) necessary to successfully graduate

Nova Scotia

Successful completion of an academic program (university preparatory) that leads to graduation with an overall 65% average and including at least five subjects as follows:

- English 12, or English Enriched 12
- at least two courses numbered 12 selected from Biology, Canadian Literature, Chemistry, French, History, Math, other languages, Physics
- additional 12 courses from above or from Comparative Religion, Computer Studies, Economics, Geography, Home Economics, Law, Modern World Problems, Music, Physical and Health Education, Political Science, Sociology or Statistics

Newfoundland

Successful completion of an academic program that leads to graduation with an overall 65% average, and including at least 13 credits as follows:

- English 3101 and either English 3201 or 3202
- Mathematics 3200, 3201 or 3203
- at least one of Biology 3201, Chemistry 3202, Geology 3203, Physics 3204, Earth Systems 3213
- at least one of Advanced Writing 3103, Global Issues 3200 or Geography, History or languages at the 3000 level
- at least two additional credits at the 3000 level
- additional academic course(s) necessary to successfully graduate

Post Secondary Admissions

Statement on Transfer

To apply for admission as a transfer student, a minimum of 15 credit hours of acceptable transfer course work must be presented.

Following review and approval of transfer credit by the Office of the Registrar and the Program Chair of the student's selected major, students completing a four year degree program at UNBC **may be** eligible to receive up to 90 credit hours of transfer credit from a recognized sending institution.

Note:

1. Applicability of transfer credit will vary with the number of electives and/or lower and upper division requirements on a particular degree.
2. For admission purposes, a minimum transfer grade point average of 2.0 or C (63%), calculated based on all previous post-secondary institutions attended, is required.
3. Any applicant who has been required to withdraw or is placed on academic probation by the transferring institution:
 - must wait for three semesters before being able to apply for admission to UNBC
 - must outline any work completed or experience gained which would better qualify them to successfully complete work at UNBC
4. No transfer credit will be awarded for any course with a grade of less than 1.0 or D (50-59%).
5. Failure to declare attendance at any post secondary institution could result in disciplinary action by the University and transfer credit will not be considered for transcripts provided in this manner.

Admission from a BC Community College or University College

University Transfer Programs Including Associate in Arts or Science Degrees

To meet admission requirements, the cumulative grade point average (CGPA) on all transferable courses attempted must be at least 2.0 or C (63%). While all courses attempted are included in the calculation of a student's admission GPA, no transfer credit will be awarded for any course with a grade of less than 1.0 or D (50-59%).



Transfer credit is awarded according to agreements articulated in the *BC Transfer Guide* (available online at www.bccat.bc.ca). Note: UNBC guarantees priority admission and full transfer credit (minimum of 60 credit hours) to students transferring with an Associate in Arts or Science degree.

Diploma Programs

To meet admission requirements, students must present a minimum CGPA of 2.0 or C (63%).

Transfer credit for articulated courses is awarded at the point of admission. Upon declaration of a major in a related degree program, students who hold specific Business Administration, Natural Resource Management or Environmental Studies Diplomas may be eligible for additional block credit. Please note: To receive transfer credit in certain program areas, a higher minimum grade is required.

Admission from College Outside BC and Quebec

The CGPA on all transferable courses attempted must be at least 2.0 or C (63%). No transfer credit will be awarded for any course with a grade of less than 1.0 or D (50-59%).

ADMISSIONS

Individual transfer credit is awarded for course work deemed to be university transferable in the home province. Holders of two year diploma programs may be eligible for block credit, to a maximum of 30 credits.

■ Admission from Institutes of Technology

To meet admission requirements, the CGPA on all transferable courses attempted must be at least 2.0 or C (63%).

Transfer credit is awarded towards a relevant UNBC degree program on an individual basis, to a maximum of 30 credits.

■ Admission from a College of Applied Arts and Technology (Ontario)

All students admitted from a College of Applied Arts and Technology are strongly encouraged to seek academic advising prior to registering for courses and/or declaring a degree program.

Students completing less than two full semesters at a CAAT will not be considered for admission under this category. Students in this situation should consult the section dealing with admission from high school.

Students who wish to transfer to UNBC after completing at least two full semesters of a diploma program at a CAAT may be considered for admission to first year at UNBC. Students must have at least a grade point average of 70% on their course work from the CAAT. Transfer credit will not be awarded.

Students who have been awarded a diploma from a College of Applied Arts and Technology may be eligible for admission and for block transfer credit (see below).

Students must have achieved an overall grade point average of at least 70% on their diploma to be considered for admission, and to be eligible for block credit. Normally, students who meet the grade requirements may be awarded up to 30 credit hours of block transfer on a two year diploma if the diploma is relevant to the degree program sought at UNBC.

■ Admission from a Canadian University

Admission under this category is by selection. The following minimum conditions will apply to all applicants under this category of admission:

- applicants must be in good academic standing at a Canadian university
- the cumulative grade point average must be at least 2.0 (C)
- no credit will be awarded for any course with a grade of less than 1.0 (D)

Other Admission Categories

■ Mature Student Entry

Each mature student application will be reviewed on its own merits. Mature applicants must be:

- permanent residents of British Columbia
- out of secondary school for at least three years
- 21 years of age on or before the first day of classes

Students must submit transcripts of any post-secondary work that they have completed for the purpose of prerequisite checks, and a résumé of both academic and other activities (employment, service, etc.) for the past three years.

All students admitted to UNBC under this category must have their registrations approved by an Academic Advisor. Normally, mature students will enrol on a part-time basis for at least one semester.

■ Special Entry

Where applicants do not meet the requirements under any specific category of admission, or where there are extenuating circumstances, application may be made under the category of Special Entry.

In these instances, applicants will be assessed on an individual basis and may be asked to provide:

- any and all academic transcripts
- a résumé of both academic and other activities (employment, service, etc.) for the past three years

In addition, applicants under this category may be asked to present themselves for an interview.

All students admitted to UNBC under this category must have their registrations approved by an Academic Advisor. Normally, special entry students will enrol on a part-time basis for at least one semester.

Any admissions conditions involving the achievement of a specific grade point average will be reviewed after the first semester. The normal requirement to continue studies would be a C average in a course load not to exceed nine credit hours. Failure to achieve the required grade point average will result in further registration being denied. Once admissions requirements are cleared, the student will proceed as a regular UNBC student.

■ Interest Only

Students who do not intend to pursue a degree or certificate program at UNBC, but want to take courses for credit, may do so under the category of Interest Only, provided they have not previously been refused admission to UNBC under any other category. This category of admission permits easy access to UNBC studies as minimal documentation at the point of entry is required.

Interest Only students must:

- enrol on a part-time basis for their first semester at UNBC (less than 12 credit hours)
- re-apply every semester
- obtain a minimum semester grade point average of 2.00 in order to remain eligible for re-entry under this category.

Note:

1. Interest Only students who later decide to pursue a degree or certificate program at UNBC, must re-apply and meet general admission requirements as stated in the calendar.
2. Applicants whose first language is not English should refer to the section *English Language Requirements*.
3. UNBC students previously on academic probation or required to withdraw are not eligible to apply for admission or re-entry under this category.

■ Audit Only

Students wishing to participate in university courses, but not for credit, may apply for audit status. Audit students must submit an application for admission and pay the application fee. Audit students are not required to meet the admission requirements.

Students wishing to audit a course must obtain approval from the instructor. Forms for audit approval are available from the Office of the Registrar. Approval from the instructor in no way guarantees that an audit student will be able to register in the course. Priority for registration will be given to students taking the course for credit.

Students may not change from audit to credit status after the second week of classes. Students wishing to change to credit status must meet the admission requirements.

Audit courses do not meet prerequisites or course/program requirements.

Students wishing to change from credit to audit status must obtain approval from the instructor. Changes from credit to audit status must take place prior to the last day to add courses in the given semester (prior to the third week of classes).



The degree of participation in a course for an audit student is at the discretion of the instructor. Audit students are not entitled to write the final exam or be granted credit for the course. Note: Students may reregister in an audit course for credit.

Full-time UNBC students are not charged for audit courses. All other audit students are required to pay one-half of the regular tuition fee for the audit course. All other related fees must be paid in full by all audit students.

■ Studying at UNBC as a Visiting Student (on a Letter of Permission)

Students who are enrolled and in good standing at another college or university may attend UNBC on a letter of permission from their home institution. It is the student's responsibility to ensure that they meet any course prerequisites. Individuals planning to attend UNBC on a letter of permission should complete an application for admission, pay the application fee, and arrange to have the Letter of Permission sent, along with a copy of their most recent transcript, directly to the Office of the Registrar. Facsimile versions of this information will be acceptable on a provisional basis subject to receipt of the original.

■ Admission to a Second Undergraduate Degree

If you have a recognized first undergraduate degree, you may be eligible to take a second degree at the Bachelor's level. Students can expect to complete a minimum of 60 credits plus any unmet first and second year requirements. UNBC reserves the right to deny admission under this category where the program completed and the program sought are too similar.

International Admissions

International Applicants

The University of Northern British Columbia welcomes applications for admission from qualified students from other countries. Completed, appropriate secondary qualifications from other countries will be considered for High School admission, and study at recognized universities and colleges will be considered for Transfer admission.

International applicants must be in good academic standing and be able to demonstrate an acceptable level of proficiency in English. Applicants whose first language is not English should refer to the section *English Language Requirements*.

Each international application will be reviewed on its own merits. Please refer to page 12 for information on admission deadlines.

Admission with a General Certificate of Education (or Equivalent)

Students applying for admission from a GCE system (or equivalent) must present a minimum of two Advanced (A) level subjects and three Ordinary (O) level subjects, and have an overall grade point average of C in order to be considered for admission. All A level subjects presented for admission must have a grade of at least C. Students may substitute two Advanced-Subsidiary (AS) level subjects for one A level.

Students who present A level subjects with grades of at least C may receive up to six credit hours of transfer credit for each course.

Students who have completed a General Certificate of Education at the Ordinary Level (O level) are not considered eligible for admission to first year at the University of Northern British Columbia.

Exchange Programs

Exchange programs between the University of Northern British Columbia and other institutions are defined by the terms of formal exchange agreements.

Students participating in exchange programs generally pay their tuition fees to UNBC, but select their courses at the university they will be visiting (this policy may vary with each exchange agreement). Grades are recorded at the receiving institution and forwarded to UNBC at the end of the semester or academic year. In the case of a formal exchange, these grades will be translated into UNBC grades for entry on the student's UNBC transcript.



Students are permitted to spend a maximum of one academic year on a formal exchange. To participate in an international exchange, students must be nominated by UNBC and then wait for written approval from the receiving university. Students are required to register and pay their fees to UNBC before leaving on exchange. For more information on exchange opportunities and application procedures, contact the International Centre.

Study abroad where a formal agreement does not exist must be conducted by means of a letter of permission. In such cases tuition fees are paid to the receiving institution.

UNBC is constantly updating exchange opportunities for students to ensure students receive high quality international experiences that are relevant and challenging. International Exchange Agreements include, but are not limited to:

- Australia (Tasmania)
- Finland (Lapland)
- Japan (Osaka International University and Utsunomiya University)
- New Zealand (Massey and Waikato)
- Russia (Russian Academy of Sciences and Yakutsk State University)
- Scotland (University of Dundee)
- Sweden (Swedish University of Agricultural Sciences, Umea, and Växjö)
- Taiwan (Canada Taiwan Student Mobility Program)

Selection Criteria for International Exchange Participants

The Exchange Student Selection Committee and the SCAPP Subcommittee on International Agreements have developed the following criteria to select UNBC students to participate in formal international exchanges. Criteria are outlined in descending order of importance.

Grade Point Average

- a minimum cumulative GPA of 2.67 is required.
- in exceptional circumstances, a minimum of 2.67 over the last 30 credit hours may be considered.
- in some cases a higher CGPA is required by the receiving institution.

Statement of Interest

- students are asked to submit a one to two-page essay outlining the potential impact of participation in the exchange on their academic program and the expected contribution to their career plans
- the quality of writing used in the statement of interest will also be considered.

Academic Plan/Proposal

- the proposal should demonstrate that exchange participations will contribute to a student's degree program and/or elective requirements.
- students will complete a proposal for both their first and second choice of destinations, but they will only be required to obtain advisor/faculty signatures for their first choice at the initial state of the application process.

Letters of Academic Reference (2)

- referees are asked to comment on the student's ability to succeed academically in an exchange.
- the committee will also consider a referee's evaluation of other characteristics that will contribute to a student's success.

- letters of reference should be from UNBC faculty members or the applicant must provide an explanation as to why another academic reference is valid.

Curriculum Vitae/Résumé

- the Committee will look for community and or campus participation.
- a résumé may also include information on cross-cultural interest and experience.
- relevant experience in the workforce or as a volunteer will also be taken into consideration.

Academic Year

- senior students will have had more time to develop academic maturity, and less opportunity to participate in exchanges in proceeding years, and thus may be given priority over more junior students.
- students must complete at least two semesters of full-time study at UNBC before participating in an international exchange.

Special Criteria

- students should meet specific criteria for particular exchanges.
- applicants must meet language requirements for some exchanges.

Other UNBC Exchanges

- students may participate in a maximum of two semesters of exchange.
- all other things being equal, the committee will give priority to students who have not previously participated in a UNBC exchange program.

Additional Considerations

- only complete applications will be considered.
- an interview may be required for final selection.
- recent UNBC alumni may be considered as exchange participants if there are no qualified applicants among current UNBC students.

Fees

At the time of publication, fees for 2000-2001 had not been set. The fees listed below are for 1999-2000.

Undergraduate

Tuition	\$75.25 per credit hour
Student services fee	\$3.50 per credit hour (to a maximum of \$52.50)
Student society fee	\$3.00 per credit hour (to a maximum of \$30.00)
Building fee	\$15.00 per semester (Prince George students only)

One Card fee	\$.50 per credit hour (to a maximum of \$15.00—Prince George students) \$.30 per credit hour (to a maximum of \$9.00—Regional students)
Fitness Centre fee	\$22.15 per semester (Prince George students only) <i>Note: this fee is \$11.08 for each of the Spring and Summer Intersessions</i>
PGPIRG fee	\$4.00 per semester (full-time students) \$2.00 per semester (part-time students)

FEES

Athletics fee	\$10.00 per semester
Audit course	part-time students—\$37.63 per credit hour; full-time students—free
Course challenge fee	\$37.63 per credit hour

International Students

Tuition – undergrad	\$169.31 per credit hour; all other fees are the same as those for Canadian undergraduate students
Medical Insurance	\$125.00 per 3 month period <i>(please refer to Medical Insurance Fee for International Students on page 23)</i>

Co-op Education Students

Fee	\$301.00 per work term
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Other Fees

Application fee	\$10.00 to accompany each application for admission
Document evaluation fee	\$25.00 <i>(for out of province or out of country secondary and post-secondary documents)</i>
Registration deposit	If processed together, Fall Semester and Winter Semester = \$100.00 tuition deposit OR If processed separately, Fall Semester = \$100.00 tuition deposit and Winter Semester = \$100.00 tuition deposit <i>(tuition deposits are non-refundable)</i>
Graduation processing fee	\$35.00 fee per application for all graduating students (non-refundable)



One Card replacement	\$12.00 per lost card
Course fees	Certain courses carry additional fees to cover the costs of field trips, lab supplies or readings. Please refer to the <i>Registration Guide</i> for further details

Interest penalty 2% per month on overdue accounts

Parking Fees

Daily	\$1.00 per six hour period, maximum of \$2.00 per day
Semester	\$128.40 including GST
Annual	\$385.20 including GST
Annual with plug in	\$642.00 including GST <i>(subject to availability)</i>

Residence Fees

Application fee	\$25.00 non-refundable
Security deposit	\$200.00
Residence life fees	\$15.00 per semester
Two bedroom units	\$1,848.00 per semester per occupant
Four bedroom units	\$1,598.00 per semester per occupant
Residence parking	\$164.78 per semester, including GST

■ Additional Information on Fees

BC Residents 65 Years or Older

BC residents who are 65 years of age or older and who are eligible for admission, may register for courses and receive a waiver for the payment of tuition fees. Please note that in those areas where there are a limited number of spaces available, students under this category of registration may not receive priority.

Student Services Fee

The student services fees are collected from full-time and part-time students registered for courses to augment services to students.

PGPIRG Fee

The PGPIRG fee is collected by UNBC on behalf of the Prince George Public Interest Research Group. The mandate of this group is to organize its members around topics of public interest such as social justice and environmental issues. Please contact the group at (250) 960-7474 for further information.

Document Evaluation Fee

This fee will only be waived for participants in a recognized UNBC exchange program.

Registration Deposit

The registration deposit is non-refundable.

■ Payment Due Date

All student accounts are payable in full by the first day of classes and full refunds will only be available until the end of the second week of classes. After this time the refunds will be discounted as outlined in the fee reduction schedule. An interest penalty of 2% per month will be applied to any outstanding balance after the first day of classes.

■ Financial Hold

Students who fail to pay the outstanding balance of their current account will be placed on financial hold. While on financial hold, no subsequent registration activity will be allowed, no statement of grades will be mailed, no official transcripts of the academic record will be issued, and a student can be denied graduation. The financial hold will be removed when the outstanding balance, including all interest penalties, is paid in full.

■ Failure to Notify

Any student failing to **provide written notification** to the Registrar's Office of their complete withdrawal from a course or slate of courses will be assessed full tuition fees for those registered courses and receive grades of "F" on their transcript.

■ Payments

Payments can be made by cash, debit card, cheque, VISA/MasterCard or money order. Please ensure that the correct student number is written on the face of all cheques and money orders submitted to the University. Fees may be paid by the following methods:

- **by mail:** cheques should be made payable to the *University of Northern British Columbia* and must reach UNBC by the due date. The University is not responsible for payments lost in the mail. VISA/MasterCard Payment Forms are included in the Registration Guide or are available from the Office of the Registrar.
- **at a bank:** a **tuition fee payment form** must be completed and given to the bank at the time of payment. This form is available from the cashier's counter located in the Office of the Registrar.

- **in person:** at the cashier's counter located in the Office of the Registrar during regular business hours. Tuition payments are also accepted at UNBC's regional offices in Terrace, Fort St. John and Quesnel.
- **by VISA/MasterCard:** will be accepted in person by the Cashier.

■ Refund Policy

Refunds can be applied for at the cashier's counter after the add/drop period. Allow two to three weeks for processing. If there is a credit on a student's account and no refund is requested, the credit will be applied to the next semester.

■ Fee Reduction Schedule

First two weeks of classes	All fees paid will be refunded except \$100 registration deposit
Third week of classes	80% of tuition fees paid will be refunded
Fourth week of classes	60% of tuition fees paid will be refunded
Fifth week of classes	40% of tuition fees paid will be refunded
Sixth week of classes	20% of tuition fees paid will be refunded
Seventh week or later	No refund of tuition fees will be made

■ Medical Insurance Fee for International Students

The University of Northern British Columbia has a compulsory medical insurance policy for international students. International students must provide proof of valid medical coverage for *each semester* that they register at UNBC. A hold will be placed on a student's file if proof of valid medical coverage is not supplied.

A medical insurance fee of \$125 will be assessed automatically each semester. If students have valid BC Medical Insurance or comparable private insurance, the fee can be waived. Students without medical insurance will be asked to enrol in a university-sponsored plan which costs \$125 for three months of coverage.

Students must contact the International Centre to enrol in the private insurance plan or to receive a waiver of the medical insurance fee. Please note that simply paying the \$125 fee does not fulfill the policy. The policy requires that international students have valid medical insurance while at UNBC, and that they demonstrate proof of such coverage.

Undergraduate Programs

■ BA (General)

The Bachelor of Arts (General) degree provides a broad education in the arts. Students are required to complete 120 credit hours including a minimum of 60 credit hours of upper division course work. Ninety credit hours (including 30 credit hours at the upper level) must consist of Humanities and Social Science courses.

The minimum requirement for completion of the Bachelor of Arts (General) is 120 credit hours.

Core Requirement

Students completing a Bachelor of Arts must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences
- **OR**
- CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

Students must complete 54 credit hours of lower division (100 and 200 level) course work.

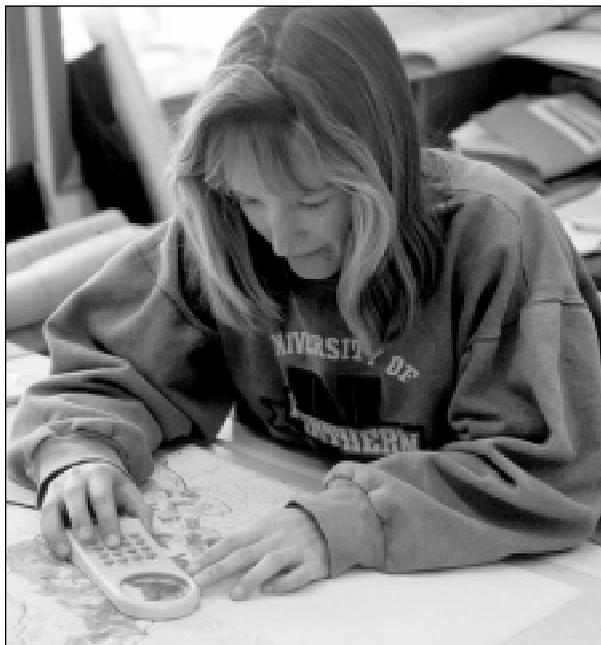
Upper Division Requirement

Students must complete a minimum of 60 credit hours of upper division (300 and 400 level) course work.

Minor Recommendation

Students are strongly urged to include in their degree a completed minor or a minimum of 18 credit hours from any of those programs within Arts or Social Sciences which offers a BA, or from the Philosophy or Russian Studies minor; i.e.: from the following list:

- Anthropology (BA program)
- Economics (BA program)
- English (BA program)
- Environmental Studies (BA program)
- First Nations Studies (BA program)
- History (BA program)
- Geography (BA program)
- International Studies (BA program)



- Northern Studies (Major program)
- Philosophy (Minor program)
- Political Science (BA program)
- Resource-Based Tourism (BA program)
- Russian Studies (Minor program)
- Women's Studies (BA program)

■ BSc (General)

The Bachelor of Science (General) degree provides a broad education in science, with the requirement for specialization in at least two of the following areas:

- Environmental and Earth Sciences
- Life Sciences
- Mathematics and Computer Science
- Physical Sciences

This program may be useful to students planning to pursue studies in various post-baccalaureate professional areas. Students should consult with the appropriate professional school(s) to ensure they include all the appropriate required courses in their studies at UNBC to be eligible for entry into programs in their desired professional area. This program may not be suitable for students intending to continue in some areas of graduate studies in science.

Students enrolled in this degree program are required to successfully complete a total of 120 credits hours including a minimum of 60 credits hours from upper division level courses. Specialization and elective course requirements

must also be met. Students must ensure that they complete course prerequisites before registering in any course.

The minimum requirement for completion of the Bachelor of Science (General) is 120 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Sciences
- OR**
- CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Lower Division Requirement

BIOL 101-4	Introductory Biology I
BIOL 102-4	Introductory Biology II
BIOL 201-3	Ecology
CHEM 100-3	General Chemistry I
CPSC 100-4	Computer Programming I
ENVS 201-3	Introduction to Atmospheric Science
GEOG 210-3	Geomorphology
MATH 100-3	Calculus I
PHYS 100-4	Introduction to Physics I

Students must select additional 100 and 200 level courses to ensure proper prerequisites are in place for Specialization and Elective courses taken at the upper division (see course listings for specific areas of specialization).

Note 1: students interested in Mathematics and Computer Science as an area of specialization are strongly advised to include the following prerequisite 100 level courses in their studies:

CPSC 101-4	Computer Programming II
MATH 101-3	Calculus II
PHYS 110-4	Introductory Physics I: Mechanics (replaces PHYS 100-4)
PHYS 111-4	Introductory Physics II: Waves and Electricity

Note 2: students interested in Physical Sciences as an area of specialization are strongly advised to include the following prerequisite 100 level courses in their studies:

CHEM 101-3	General Chemistry II
CHEM 120-0.5	General Chemistry Lab I
CHEM 121-0.5	General Chemistry Lab II
CPSC 101-4	Computer Programming II
MATH 101-3	Calculus II

PHYS 110-4 Introductory Physics I: Mechanics (replaces PHYS 100-4)

PHYS 111-4 Introductory Physics II: Waves and Electricity

Upper Division Requirement

Students must complete a minimum of 60 credit hours of 300 and 400 level course work chosen to ensure fulfillment of the specialization and general science requirements.

Specialization Requirement

Students must complete a combination of sixteen courses from two areas of specialization listed below. Eight of these courses must be at the 400 level; a minimum of six courses is required in each of the two areas of specialization chosen.

General Science Requirement

Two 300 or 400 level courses chosen from among the courses listed in the four areas of specialization listed below.

Environmental and Earth Sciences Courses

ENVS 305-3	Environmental Impact Assessment
ENVS 311-3	Northern Perspectives
ENVS 312-3	Boundary-layer Meteorology
ENVS 405-3	Advanced Environmental Assessment
ENVS 406-3	Ecological Modelling
ENVS 408-3	Macro-meteorology
ENVS 414-3	Environmental and Professional Ethics
FSTY 205-3	Forest Soils
GEOG 205-3	Spatial Data Techniques
GEOG 300-3	Geographical Information Systems
GEOG 310-3	Hydrology
GEOG 311-3	Advanced Geomorphology (formerly GEOG 410-3)
GEOG 405-3	Fluvial Geomorphology
GEOG 411-3	Geomorphology of Northern BC
GEOG 412-3	Geomorphology of Cold Regions
GEOG 413-3	Advanced GIS
NREM 410-3	Watershed Management
NREM 411-3	Environmental and Professional Ethics

Life Sciences Courses

BIOL 202-3	Invertebrate Zoology
BIOL 203-3	Microbiology
BIOL 210-3	Genetics
BIOL 301-3	Systematic Botany
BIOL 302-3	Limnology
BIOL 303-3	Plant Physiology
BIOL 305-3	Plant Morphology and Anatomy
BIOL 307-3	Ichthyology and Herpetology
BIOL 308-3	Ornithology and Mammalogy
BIOL 311-3	Cell and Molecular Biology
BIOL 315-3	Animal Diseases and Parasites
BIOL 321-3	Animal Physiology
BIOL 401-3	Plant - Microbial Interactions
BIOL 402-3	Aquatic Plants

UNDERGRADUATE PROGRAMS: BSC (GENERAL)

BIOL 403-3	Evolutionary Biology
BIOL 404-3	Plant Ecology
BIOL 406-3	Fish Ecology
BIOL 410-3	Population and Community Ecology
BIOL 411-3	Conservation Biology
BIOL 412-3	Wildlife Ecology
BIOL 420-3	Animal Behaviour
ENVS 306-3	Human Ecology
ENVS 308-3	Northern Environments
ENVS 406-3	Ecological Modelling
FSTY 201-4	Plant Systems
FSTY 206-3	Forest Biology
FSTY 305-3	Silviculture I
FSTY 307-4	Forest Health
FSTY 309-3	Fire Ecology and Management
FSTY 405-3	Silviculture II
NREM 203-3	Resource Inventories and Measurements
NREM 210-4	Integrated Resource Management
NREM 410-3	Watershed Management
RRT 201-3	Introduction to Resource Recreation Management
RRT 302-3	Wildland Recreation

Mathematics and Computer Science Courses

CPSC 141-3	Discrete Computational Mathematics
CPSC 200-3	Data Structures and Algorithm Analysis
CPSC 230-4	Computer Architecture I
CPSC 231-4	Computer Architecture II
CPSC 241-3	Discrete Computational Mathematics II
CPSC 270-3	Human Interface Design
CPSC 281-3	Data Structures I
CPSC 290-3	Systems Analysis and Design
CPSC 300-3	Software Engineering I
CPSC 301-3	Software Engineering II
CPSC 320-3	Programming Languages
CPSC 321-3	Operating Systems
CPSC 325-3	Introduction to Compiler Design
CPSC 340-3	Theory of Computation
CPSC 370-3	Functional and Logic Programming
CPSC 371-3	Artificial Intelligence
CPSC 421-3	Advanced Compilation Techniques
CPSC 422-3	Database Systems
CPSC 434-3	Hardware Architecture
CPSC 440-3	Computer Networks
CPSC 441-3	Distributed Systems
CPSC 442-3	Parallel Computing
CPSC 472-3	Knowledge Based Systems
CPSC 474-3	Natural Language Processing
CPSC 482-3	Data Structures II
MATH 200-3	Calculus III
MATH 201-3	Analysis I
MATH 220-3	Linear Algebra
MATH 221-3	Operations Research
MATH 222-3	Foundations of Modern Mathematics I
MATH 223-3	Foundations of Modern Mathematics II
MATH 300-3	Analysis II
MATH 320-3	Survey of Algebra
MATH 321-3	Topology
MATH 330-3	Numerical Analysis I

MATH 331-3	Numerical Analysis II
MATH 332-3	Differential Equations
MATH 340-3	Introduction to Probability
MATH 341-3	Introduction to Statistics
MATH 370-3	Geometry I
MATH 400-3	Analysis III
MATH 401-3	Functional Analysis I
MATH 420-3	Structure of Groups and Rings
MATH 421-3	Field Theory
MATH 430-3	Applied Mathematics I
MATH 431-3	Applied Mathematics II
MATH 470-3	Geometry II

Physical Science Courses

CHEM 200-3	Physical Chemistry I
CHEM 201-3	Organic Chemistry I
CHEM 202-3	Inorganic Chemistry I
CHEM 203-3	Organic Chemistry II
CHEM 204-3	Biochemistry I
CHEM 210-3	Analytical Chemistry I
CHEM 220-3	Organic and Biochemistry
CHEM 221-1	Organic and Biochemistry Lab
CHEM 250-1	Organic Chemistry Lab I
CHEM 251-1	Organic Chemistry Lab II
CHEM 300-3	Physical Chemistry II
CHEM 301-3	Advanced Organic Chemistry I
CHEM 302-4	Environmental Chemistry I
CHEM 303-3	Quantum Chemistry
CHEM 304-3	Advanced Organic Chemistry II
CHEM 305-3	Physical Chemistry III
CHEM 306-3	Biochemistry II
CHEM 307-3	Biochemistry III
CHEM 308-3	Biochemistry Lab
CHEM 310-3	Analytical Chemistry II
CHEM 311-3	Analytical Chemistry III
CHEM 312-3	Organic Chemistry Lab III
CHEM 313-1.5	Physical Chemistry Lab I
CHEM 314-1.5	Physical Chemistry Lab II
CHEM 320-3	Inorganic Chemistry II
CHEM 321-3	Inorganic Chemistry III
CHEM 322-3	Inorganic Chemistry Lab
CHEM 400-3	Topics in Environmental Chem
CHEM 401-3	Chemistry Seminar
CHEM 402-3	Topics in Organic Chemistry
CHEM 403-3	Topics in Inorganic Chemistry
CHEM 404-3	Topics in Physical Chemistry
CHEM 405-3	Topics in Biochemistry
PHYS 200-3	Thermal Physics
PHYS 202-4	Electromagnetism and Optics
PHYS 205-3	Modern Physics I
PHYS 206-4	Modern Physics II
PHYS 300-3	Classical Mechanics
PHYS 301-3	Optics
PHYS 302-3	Quantum Mechanics I
PHYS 303-3	Advanced Physics Laboratory
PHYS 304-3	Biophysics
PHYS 305-4	Electronics
PHYS 307-3	Selected Topics in Environmental Physics
PHYS 310-3	Classical Electromagnetism I

PHYS 400-3	Quantum Mechanics II
PHYS 404-3	Solid State Physics
PHYS 406-3	Subatomic Physics
PHYS 407-3	Statistical Mechanics
PHYS 408-4	Experimental Methods in Physics
PHYS 409-3	Mathematical Methods in Physics
PHYS 410-3	Classical Electromagnetism II

Elective Requirement

Students are free to choose elective courses to ensure completion of a minimum of 120 credit hours, however: (a) electives must be chosen to ensure upper and lower division requirements are met; (b) at least two of these electives must be in Humanities or Social Sciences (in addition to core requirements).

Joint Majors

The degrees listed below are designed for students interested in a combination of two related fields of study. They normally involve a specific set of course requirements selected to provide solid specialization in each of the two fields. Students are required to complete Core course requirements. The graduation requirements for a Joint Major can normally be met in four years of study.

At present, Joint Majors are available in the following pairs of disciplines:

- Biology and Chemistry
- Chemistry and Computer Science
- Chemistry and Mathematics
- Chemistry and Physics
- Computer Science and Mathematics
- Computer Science and Physics
- International Studies and Political Science
- Mathematics and Physics

More information concerning each of the disciplines in the above combinations can be found in the calendar sections specific to them. Students interested in these Joint Majors should seek advising in both disciplines.

• BA (Joint Major in International Studies/Political Science)

The minimum requirement for completion of a Bachelor of Arts with a Joint Major in Political Science and International Studies is 120 credit hours.

Core Requirement

Students completing a Bachelor of Arts must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences
- OR**
- CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

ECON 100-3	Microeconomics or ECON 202-3 History of Economic Thought
ECON 101-3	Macroeconomics
ECON 205-3	Statistics for the Social and Management Sciences
INTS 101-3	Canada and the World
INTS 205-3	Introduction to International Studies
POLS 100-3	Contemporary Political Issues
POLS 200-3	Canadian Government and Politics
POLS 202-3	Comparative Government and Politics
POLS 204-3	History of Political Thought

One of:

INTS 200-3	Contemporary Russia
INTS 201-3	Contemporary Scandinavia
INTS 202-3	Contemporary United States
INTS 203-3	Contemporary Japan
INTS 204-3	Contemporary China
INTS 258-3	Contemporary Australia and New Zealand

Upper Division Requirement

INTS 310-3	Origins and Evolution of International Studies
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Nine credit hours of 300 or 400 level International Studies.

POLS 300-3	Modern Political Thought
POLS 303-3	Democracy and Dictatorship

Three of:

POLS 305-3	United States Politics
POLS 308-3	Japanese Politics and Government
POLS 311-3	Russian Politics and Society
POLS 314-3	European Politics and Government
POLS 405-3	Politics of Democratic Transition
POLS 415-3	Comparative Northern Development

Fifteen additional credit hours of 300 or 400 level International Studies and Political Science courses.

Language Requirement

Twelve credit hours of language courses. At least two courses must be in one language.

UNDERGRADUATE PROGRAMS: BA (JOINT MAJORS), BSC (JOINT MAJORS)

Elective Requirement

Thirty credit hours of electives in any subject at any level to ensure completion of a minimum of 120 credit hours.

• BSc (Joint Major in Biology/Chemistry)

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Biology and Chemistry is 127 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Sciences
- CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Lower Division Requirement

BIOL 101-4 Introductory Biology I
BIOL 102-4 Introductory Biology II
BIOL 201-3 Ecology
BIOL 202-3* Invertebrate Zoology

*Students wishing to include BIOL 321-3 (Animal Physiology) in their studies should substitute either BIOL 307-3 (Ichthyology and Herpetology) or BIOL 308-3 (Ornithology and Mammalogy) for BIOL 202-3 (Invertebrate Zoology).

BIOL 203-3 Microbiology
BIOL 204-3 Plant Biology
BIOL 210-3 Genetics
CHEM 100-3 General Chemistry I
CHEM 101-3 General Chemistry II
CHEM 120-0.5 General Chemistry Lab I
CHEM 121-0.5 General Chemistry Lab II
CHEM 201-3 Organic Chemistry I
CHEM 203-3 Organic Chemistry II
CHEM 204-3 Biochemistry I
CHEM 250-1 Organic Chemistry Lab I
CHEM 251-1 Organic Chemistry Lab II
MATH 152-3 Calculus for Non-majors

Students are encouraged to substitute MATH 100-3 (Calculus I) and MATH 101-3 (Calculus II) for MATH 152-3 (Calculus for Non-majors) for the first year math requirement.

PHYS 100-4 Introduction to Physics I
PHYS 101-4 Introduction to Physics II

Upper Division Requirement

BIOL 311-3 Cell and Molecular Biology

One of:

BIOL 303-3 Plant Physiology
BIOL 321-3 Animal Physiology

BIOL 411-3 Conservation Biology
BIOL 425-3 Applied Genetics and Biotechnology
CHEM 306-3 Biochemistry II
CHEM 307-3 Biochemistry III
CHEM 308-3 Biochemistry Lab
CHEM 401-3 Chemistry Seminar
CHEM 405-3 Topics in Biochemistry
MATH 342-3 Biostatistics
PHYS 304-3 Biophysics

Subject Requirement

Twenty-one credit hours of 300 or 400 level courses and nine additional credit hours at the 400 level (for a total of 30 credit hours); 18 of these credit hours must come from the following list:

BIOL 403-3 Evolutionary Biology
BIOL 410-3 Population and Community Ecology
BIOL 421-3 Insects, Fungi and Society
CHEM 302-4 Environmental Chemistry I
CHEM 310-3 Analytical Chemistry II
CHEM 320-3 Inorganic Chemistry II
CHEM 403-3 Topics in Inorganic Chemistry
CHEM 408-3 Environmental Chemistry II
FSTY 455-3 Biogeochemical Processes in Soil Systems

Elective Requirement

Six elective credit hours in any subject at any level to ensure completion of a minimum of 127 credit hours.

Students are encouraged to select their electives from the following recommended elective list:

CHEM 200-3 Physical Chemistry I
CHEM 202-3 Inorganic Chemistry I
CHEM 210-3 Analytical Chemistry I
CPSC 126-3 Introduction to Computer Systems
ENVS 201-3 Introduction to Atmospheric Science
FSTY 205-3 Forest Soils

• BSc (Joint Major in Chemistry/Computer Science)

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Chemistry and Computer Science is 125 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Sciences
- OR**
- CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Lower Division Requirement

CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
CHEM 120-0.5	General Chemistry Lab I
CHEM 121-0.5	General Chemistry Lab II
CHEM 200-3	Physical Chemistry I
CHEM 201-3	Organic Chemistry I
CHEM 202-3	Inorganic Chemistry I
CHEM 203-3	Organic Chemistry II
CHEM 210-3	Analytical Chemistry I
CPSC 100-4	Computer Programming I
CPSC 101-4	Computer Programming II
CPSC 141-3	Discrete Computational Mathematics
CPSC 200-3	Data Structures and Algorithm Analysis
CPSC 230-4	Computer Architecture I
CPSC 231-4	Computer Architecture II
CPSC 241-3	Discrete Computational Mathematics II
CPSC 281-3	Data Structures I
MATH 100-3	Calculus I
MATH 101-3	Calculus II
MATH 220-3	Linear Algebra

Upper Division Requirement

CHEM 300-3 Physical Chemistry II
CHEM 310-3 Analytical Chemistry II
CHEM 320-3 Inorganic Chemistry II
*Fifteen credit hours of 300 or 400 level Chemistry.

CPSC 320-3 Programming Languages
CPSC 321-3 Operating Systems
CPSC 370-3 Functional and Logic Programming
*Six credit hours of 300 or 400 level Computer Science.

Six credit hours of 400 level Computer Science (excluding the seminar, project, and special topics courses).

*Three of these 21 credit hours must be at the 400 level so that a minimum of 15 credit hours of 400 level Chemistry and Computer Science are completed.

One of:

- | | |
|------------|-----------------------------|
| MATH 330-3 | Numerical Analysis I |
| MATH 340-3 | Introduction to Probability |

Elective Requirement

Twelve credit hours of electives in any subject at any level to ensure completion of a minimum of 125 credit hours.

• BSc (Joint Major in Chemistry/Mathematics)

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Chemistry and Mathematics is 124 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Sciences
- OR**
- CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Lower Division Requirement

CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
CHEM 120-0.5	General Chemistry Lab I
CHEM 121-0.5	General Chemistry Lab II
CHEM 200-3	Physical Chemistry I
CHEM 201-3	Organic Chemistry I
CHEM 202-3	Inorganic Chemistry I
CHEM 203-3	Organic Chemistry II
CHEM 210-3	Analytical Chemistry I
CPSC 100-4	Computer Programming I
MATH 100-3	Calculus I
MATH 101-3	Calculus II
MATH 200-3	Calculus III
MATH 201-3	Analysis I

UNDERGRADUATE PROGRAMS: BSC (JOINT MAJORS)

MATH 220-3	Linear Algebra
MATH 221-3	Operations Research
PHYS 110-4	Introductory Physics I: Mechanics
PHYS 111-4	Introductory Physics II: Waves and Electricity

Upper Division Requirement

CHEM 300-3	Physical Chemistry II
CHEM 310-3	Analytical Chemistry II
CHEM 320-3	Inorganic Chemistry II
*Nine credit hours of 300 or 400 level Chemistry	
Six credit hours of 400 level Chemistry	

MATH 320-3	Survey of Algebra
MATH 330-3	Numerical Analysis I
MATH 332-3	Differential Equations
MATH 340-3	Introduction to Probability
*Six credit hours of 300 or 400 level Mathematics	
Six credit hours of 400 level Mathematics	

*Three of these 15 credit hours must be at the 400 level so that a minimum of 15 credit hours of 400 level Chemistry and Mathematics are completed.

Elective Requirement

Eighteen credit hours of electives in any subject at any level to ensure completion of a minimum of 124 credit hours.

• BSc (Joint Major in Chemistry/ Physics)

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Chemistry and Physics is 125 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Sciences
- **OR**
- CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Lower Division Requirement

CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II

CHEM 120-0.5	General Chemistry Lab I
CHEM 121-0.5	General Chemistry Lab II
CHEM 200-3	Physical Chemistry I
CHEM 201-3	Organic Chemistry I
CHEM 202-3	Inorganic Chemistry I
CHEM 203-3	Organic Chemistry II
CHEM 210-3	Analytical Chemistry I
CPSC 100-4	Computer Programing I
MATH 100-3	Calculus I
MATH 101-3	Calculus II
MATH 200-3	Calculus III
MATH 220-3	Linear Algebra
PHYS 110-4	Introductory Physics I: Mechanics
PHYS 111-4	Introductory Physics II: Waves and Electricity
PHYS 200-3	Thermal Physics
PHYS 202-4	Electromagnetism and Optics
PHYS 205-3	Modern Physics I

Upper Division Requirement

CHEM 300-3	Physical Chemistry II
CHEM 310-3	Analytical Chemistry II
CHEM 320-3	Inorganic Chemistry II
CHEM 313-1.5	Physical Chemistry Lab I
CHEM 314-1.5	Physical Chemistry Lab II
*Six credit hours of 300 or 400 level Chemistry	
Six credit hours of 400 level Chemistry	

MATH 332-3	Differential Equations
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PHYS 300-3	Classical Mechanics
PHYS 302-3	Quantum Mechanics I
PHYS 303-3	Advanced Physics Laboratory
PHYS 404-3	Solid State Physics
*Three credit hours of 300 or 400 level Physics	
Six credit hours of 400 level Physics	

Elective Requirement

Fifteen credit hours of electives in any subject at any level to ensure completion of a minimum of 125 credit hours.

• BSc (Joint Major in Computer Science/Mathematics)

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Computer Science and Mathematics is 124 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Sciences
- OR**
- CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Lower Division Requirement

CPSC 100-4	Computer Programming I
CPSC 101-4	Computer Programming II
CPSC 141-3	Discrete Computational Mathematics
CPSC 200-3	Data Structures and Algorithm Analysis
CPSC 230-4	Computer Architecture I
CPSC 231-4	Computer Architecture II
CPSC 241-3	Discrete Computational Mathematics II
CPSC 281-3	Data Structures I
MATH 100-3	Calculus I
MATH 101-3	Calculus II
MATH 200-3	Calculus III
MATH 201-3	Analysis I
MATH 220-3	Linear Algebra
MATH 221-3	Operations Research
MATH 222-3	Foundations of Modern Mathematics I

Two of:

BIOL 101-4	Introductory Biology I
BIOL 102-4	Introductory Biology II
BIOL 201-3	Ecology
BIOL 203-3	Microbiology
CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
CHEM 200-3	Physical Chemistry I
CHEM 201-3	Organic Chemistry I
CHEM 202-3	Inorganic Chemistry I
CHEM 203-3	Organic Chemistry II
CHEM 204-3	Biochemistry I
PHYS 100-4	Introduction to Physics I
PHYS 110-4	Introductory Physics I: Mechanics
PHYS 111-4	Introductory Physics II: Waves and Electricity
PHYS 200-3	Thermal Physics
PHYS 202-4	Electromagnetism and Optics
PHYS 205-3	Modern Physics I
PHYS 206-4	Modern Physics II

Upper Division Requirement

CPSC 320-3	Programming Languages
CPSC 321-3	Operating Systems
CPSC 370-3	Functional and Logic Programming

*Six credit hours of 300 or 400 level Computer Science.
Six credit hours of 400 level Computer Science (excluding seminar, project, and special topics courses).

MATH 320-3 Survey of Algebra
MATH 330-3 Numerical Analysis I
MATH 332-3 Differential Equations
MATH 340-3 Introduction to Probability
*Six credit hours of 300 or 400 level Mathematics.
Six credit hours of 400 level Mathematics.

*Three of these 12 credit hours must be at the 400 level so that the total number of Computer Science and Mathematics credit hours at the 400 level is at least 15.

MATH 331-3 (Numerical Analysis II) and CPSC 340-3 (Theory of Computation) are recommended.

Elective Requirement

Sixteen to 18 credit hours of electives in any subject at any level to ensure completion of a minimum of 124 credit hours.

• BSc (Joint Major in Computer Science/Physics)

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Computer Science and Physics is 127 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Sciences
- OR**
- CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Lower Division Requirement

CPSC 100-4	Computer Programming I
CPSC 101-4	Computer Programming II
CPSC 141-3	Discrete Computational Mathematics
CPSC 200-3	Data Structures and Algorithm Analysis
CPSC 231-4	Computer Architecture II
CPSC 241-3	Discrete Computational Mathematics II
CPSC 281-3	Data Structures I
MATH 100-3	Calculus I
MATH 101-3	Calculus II
MATH 200-3	Calculus III
MATH 220-3	Linear Algebra
PHYS 110-4	Introductory Physics I: Mechanics

PHYS 111-4	Introductory Physics II: Waves and Electricity
PHYS 200-3	Thermal Physics
PHYS 202-4	Electromagnetism and Optics
PHYS 205-3	Modern Physics I

Upper Division Requirement

CPSC 320-3	Programming Languages
CPSC 321-3	Operating Systems
CPSC 370-3	Functional and Logic Programming

*Six credit hours of 300 or 400 level Computer Science.
Six credit hours of 400 level Computer Science (excluding seminar, project, and special topics courses).

MATH 330-3	Numerical Analysis I
MATH 332-3	Differential Equations
MATH 340-3	Introduction to Probability

PHYS 300-3	Classical Mechanics
PHYS 302-3	Quantum Mechanics I
PHYS 303-3	Advanced Physics Laboratory
PHYS 305-4	Electronics [which must be taken before CPSC 231-4 (Computer Architecture II)]

*Three credit hours of 300 or 400 level Physics.
Six credit hours of 400 level Physics (excluding seminar, project, and special topics courses).

*Three of these nine credit hours must be at the 400 level so that a minimum of 15 credit hours of 400 level Computer Science and Physics are completed.

Elective Requirement

Fifteen credit hours of electives in any subject at any level to ensure completion of a minimum of 127 credit hours.

• BSc (Joint Major in Mathematics/Physics)

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Mathematics and Physics is 125 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Sciences
- OR**
- CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Lower Division Requirement

CPSC 100-4	Computer Programming I
MATH 100-3	Calculus I
MATH 101-3	Calculus II
MATH 200-3	Calculus III
MATH 201-3	Analysis I
MATH 220-3	Linear Algebra
MATH 221-3	Operations Research
PHYS 110-4	Introductory Physics I: Mechanics
PHYS 111-4	Introductory Physics II: Waves and Electricity
PHYS 200-3	Thermal Physics
PHYS 202-4	Electromagnetism and Optics
PHYS 205-3	Modern Physics I
PHYS 206-4	Modern Physics II

Upper Division Requirement

MATH 320-3	Survey of Algebra
MATH 330-3	Numerical Analysis I
MATH 332-3	Differential Equations
MATH 340-3	Introduction to Probability

*Six credit hours of 300 or 400 level Mathematics.
Six credit hours of 400 level Mathematics.

PHYS 300-3	Classical Mechanics
PHYS 302-3	Quantum Mechanics I
PHYS 310-3	Classical Electromagnetism I
PHYS 407-3	Statistical Mechanics
PHYS 410-3	Classical Electromagnetism II

*Six credit hours of 300 or 400 level Physics.

*Three of these credit hours must be at the 400 level so that a minimum of 15 credit hours of 400 level Mathematics and Physics are completed.

Elective Requirement

Thirty credit hours of electives in any subject at any level to ensure completion of a minimum of 125 credit hours.

■ Accounting

Students at UNBC may complete an Accounting major in Business Administration (*see page 36*).

■ Anthropology (BA Program)

Anthropology is the integrated biological and sociocultural investigation of humankind, from the time of our pre-human ancestors to the present, including the study of both small and large scale societies. The program includes courses from archaeological, biological, linguistic and sociocultural anthropology. While a small number of mandatory courses

will ensure that all students in the program share basic understandings of the range of anthropological approaches, students will be able to select courses within the program and from other parts of the curriculum to focus on specific interests. The following suggestions illustrate the range of possibilities: a student with an interest in language could have options within the programs in First Nations Studies, International Studies, English and Psychology; a student intending to enter a graduate program in archaeology might select courses from First Nations Studies, Geology, Geography, History and Environmental Studies programs; a student planning to work in the subfield of sociocultural anthropology could select courses from First Nations Studies, International Studies, Northern Studies, Women's Studies and Social Work; a student interested in biological (or medical) anthropology would include courses in Biology, Environmental Studies and Statistics; and a career in museology or cultural property management might benefit from a background in Resource Recreation and Tourism or administration as well as First Nations Studies, International Studies, History and Northern Studies.

Anthropology prepares students for entrance to a number of graduate programs (Archaeology, Biological and Sociocultural Anthropology, Museology), several types of professional programs (Law, Library and Information Science, Communicative Disorders, Social Work, Education, etc.) or employment in government or the private sector. Students aiming towards specific career goals should discuss their interests with advisors in the program at an early stage.

• Major in Anthropology

Students may declare a major after a first year including ANTH 100-3 (Archaeological and Biological Approaches) and ANTH 101-3 (Linguistic and Sociocultural Approaches). The major requires students to take 18 Anthropology courses (54 credit hours). At least 30 credit hours of the principal courses in the program must be upper division courses. Students may not take more than 60 credit hours of Anthropology without written permission of the Program Chair.

The minimum requirement for completion of a Bachelor of Arts with a major in Anthropology is 120 credit hours.

Core Requirement

Students completing a Bachelor of Arts must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences

OR

- CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

- ANTH 100-3 Archaeological and Biological Approaches
- ANTH 101-3 Linguistic and Sociocultural Approaches

200 Level

- ANTH 210-3 Seminar in Anthropology: Understanding Theory

Fifteen additional credits from 200 level Anthropology or approved ancillary courses.

Upper Division Requirement

300/400 Level

- ANTH 300-3 Anthropological Methods
 - ANTH 310-3 Seminar in Anthropology: Theory in Practice
- Twenty-four additional credits from 300 and 400 level Anthropology courses or approved ancillary courses.

Elective Requirement

Sixty credit hours of electives at any level and in any subject to ensure completion of a minimum of 120 credit hours.

Approved Ancillary Courses

Subject to approval from the Undergraduate Advisor or Program Chair, students may apply one or more courses from the following list of courses offered by other programs toward their major or minor requirement in Anthropology. Note that this list may be amended at the discretion of the Anthropology program as curricula of other academic programs evolve.

- BIOL 350-3 Ethnobotany
- BIOL 403-3 Evolutionary Biology
- ENGL 320-3 First Nations Literature
- ENGL 420-3 First Nations Literature
- ENVS 306-3 Human Ecology
- FNST 302-3 First Nations Health and Healing
- FNST 303-3 First Nations Religion and Philosophy
- FNST 304-3 First Nations Environmental Philosophy and Knowledge
- GEOG 301-3 Cultural Geography
- GEOG 304-3 Social Geography
- GEOG 402-3 Geography of the Circumpolar North
- GEOG 403-3 Aboriginal Geography
- HIST 400-3 Aboriginal People in Canada
- HIST 420-3 Aboriginal People in the United States
- HIST 453-3 Topics in the History of Gender
- HIST 456-3 Comparative Cultural Encounters
- NREM 303-3 First Nations' Approaches to Resource Management
- PSYC 317-3 Psychobiology
- PSYC 427-3 Cross-cultural Psychology

UNDERGRADUATE PROGRAMS: ANTHROPOLOGY

WMST 204-3	Comparative Gender Studies
WMST 310-3	Indigenous Women: Perspectives
WMST 402-3	Political Economy and First Nations Women
WMST 409-3	Advanced Feminist Social Science Methodology

ANTH 420-3	Races, Racism, and Human Biology
ANTH 440-(3-6)	Internship
ANTH 450-(3-6)	Undergraduate Thesis in Anthropology
ANTH 451-3	Traditional Use Studies
ANTH 498-(3-6)	Special Topics in Anthropology
ANTH 499-(3-6)	Independent Study

• Minor in Anthropology Sociocultural Stream

The minor in Anthropology Sociocultural Stream requires completion of a total of 21 credit hours (seven courses), consisting of three lower division courses (nine credits) and four upper division courses (12 credits). A maximum of two courses (six credit hours) used to fulfill program requirements for a major (or another minor) may also be used to fulfill requirements for a minor in Anthropology Sociocultural Stream.

Requirements

ANTH 101-3	Linguistic and Sociocultural Approaches
ANTH 210-3	Seminar in Anthropology: Understanding Theory

One of:

ANTH 201-3	Medical Anthropology
ANTH 204-3	Ethnolinguistics and Ethnoscience in Northern British Columbia
ANTH 206-3	Ethnography in Northern British Columbia
ANTH 208-3	Anthropology of the Circumpolar North
ANTH 209-3	Ethnography of a Pacific Rim Society

Select 12 credit hours from:

ANTH 303-3	Archives, Texts, Museums, and Contemporary Communities
ANTH 307-3	Feminist Perspectives in Anthropology
ANTH 308-3	Maritime Adaptations
ANTH 309-3	Anthropological Perspectives on Inequality
ANTH 314-3	Development and Change in Contemporary Canadian Society
ANTH 316-3	The Social Theory and Structure of Contemporary Canadian Society
ANTH 400-3	Contemporary Theories and Critiques
ANTH 402-3	Culture and Communication
ANTH 404-3	Comparative Study of Indigenous Peoples of the World
ANTH 407-3	Topics in British Columbia Ethnography
ANTH 408-3	Kinship and Social Organization
ANTH 412-3	Popular Culture
ANTH 413-3	Topics in Environmental Anthropology
ANTH 414-3	Anthropology of Religion and Cultural Epistemology

• Minor in Anthropology Archaeological Stream

The minor in Anthropology Archaeological Stream requires completion of a total of 21 credit hours (seven courses), consisting of three lower division courses (nine credits) and four upper division courses (12 credits). A maximum of two courses (six credit hours) used to fulfill program requirements for a major (or another minor) may also be used to fulfill requirements for a minor in Anthropology Archaeological Stream.

Requirements

ANTH 100-3	Archaeological and Biological Approaches
ANTH 210-3	Seminar in Anthropology: Understanding Theory

One of:

ANTH 202-3	Archaeology in Northern British Columbia
ANTH 203-3	Archaeology of the Americas
ANTH 208-3	Anthropology of the Circumpolar North

Select 12 credit hours from:

ANTH 301-3	Field Excavation and Laboratory Analysis in Archaeology
ANTH 302-3	New Directions in Contemporary Archaeology
ANTH 409-3	Topics in British Columbia Archaeology
ANTH 413-3	Topics in Environmental Anthropology
ANTH 417-(3-6)	Archaeological Research Project
ANTH 418-3	Archaeology and First Nations
ANTH 440-(3-6)	Internship
ANTH 450-(3-6)	Undergraduate Thesis in Anthropology
ANTH 451-3	Traditional Use Study
ANTH 498-(3-6)	Special Topics in Anthropology
ANTH 499-(3-6)	Independent Study

• Minor in Anthropology Biological Stream

The minor requires completion of a total of 21 credit hours (seven courses), consisting of three lower division courses (nine credits) and four upper division courses (12 credits). A maximum of two courses (six credit hours) used to fulfill

requirements for a major (or another minor) may also be used to fulfill program requirements for a minor in Anthropology Biological Stream.

Requirements

ANTH 100-3 Archaeological and Biological Approaches
 ANTH 210-3 Seminar in Anthropology: Understanding Theory

One of:

ANTH 200-3 Biological Anthropology
 ANTH 201-3 Medical Anthropology
 ANTH 220-3 Introduction to Primatology

Select 12 credit hours from:

ANTH 311-3 Nutritional Anthropology
 ANTH 312-3 Human Adaptability
 ANTH 320-3 Biology of Circumpolar Peoples
 ANTH 411-3 Topics in Biological Anthropology
 ANTH 420-3 Races, Racism, and Human Biology
 ANTH 440-(3-6) Internship
 ANTH 450-(3-6) Undergraduate Thesis in Anthropology
 ANTH 498-(3-6) Special Topics in Anthropology
 ANTH 499-(3-6) Independent Study

■ Biology (BSc program)

The Bachelor of Science in Biology is a broadly based undergraduate program in biology that is designed to present the major concepts of contemporary biology at the molecular, cellular, organismic, population and community levels. The degree is designed to have sufficient flexibility for the student to follow interests ranging from microbial to plant to fish or wildlife biology. Capitalizing on the northern setting of the University, there is an emphasis on northern flora and fauna, morphological, biochemical, physiological and behavioural modifications to temperate and arctic conditions and the dynamics of microbial, plant and animal populations in northern ecosystems.

The Biology program also assists the Forestry program in delivery of the Wildlife and Fisheries major in the Natural Resources Management degree (*see page 63*).

• Major in Biology

The major in Biology requires students to take at least 62 credit hours of biologically-oriented courses, of which 42 credit hours must be upper division (i.e. 300 or 400 level). Note that NRES 430-6 can count as up to six credit hours toward this requirement (with permission of the Biology Program Chair).

The minimum requirement for the completion of a Bachelor of Science with a major in Biology is 126 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
 CORE 103-3 Social Sciences
- OR**
- CORE 101-3 Humanities or
 CORE 103-3 Social Sciences and
 three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

BIOL 101-4 Introductory Biology I
 BIOL 102-4 Introductory Biology II
 CHEM 100-3 General Chemistry I
 CHEM 101-3 General Chemistry II
 CHEM 120-0.5 General Chemistry Lab I
 CHEM 121-0.5 General Chemistry Lab II
 NRES 100-3 Communications in Natural Resources and Environmental Studies
 or CORE 100-3 Effective University Writing and Communication
 or ENGL 170-3 Writing and Communication Skills
 MATH 152-3 Calculus for Non-majors
 PHYS 100-4 Introduction to Physics I
 PHYS 101-4 Introduction to Physics II

200 Level

BIOL 201-3 Ecology
 BIOL 210-3 Genetics
 CHEM 220-3 Organic and Biochemistry
 CHEM 221-1 Organic and Biochemistry Lab

Two of:

BIOL 202-3 Invertebrate Zoology
 BIOL 203-3 Microbiology
 BIOL 204-3 Plant Biology

Two of:

ENVS 201-3 Introduction to Atmospheric Science
 ENVS 202-3 Introduction to Aquatic Systems
 FSTY 205-3 Forest Soils
 GEOG 210-3 Geomorphology

Upper Division Requirement

300 Level

BIOL 311-3 Cell and Molecular Biology
 MATH 342-3 Biostatistics

One of:

BIOL 303-3	Plant Physiology
BIOL 321-3	Animal Physiology

Two of:

BIOL 301-3	Systematic Botany
BIOL 305-3	Plant Morphology and Anatomy
BIOL 307-3	Ichthyology and Herpetology
BIOL 308-3	Ornithology and Mammalogy

400 Level

BIOL 403-3	Evolutionary Biology
BIOL 410-3	Population and Community Ecology
BIOL 411-3	Conservation Biology

One of:

BIOL 404-3	Plant Ecology
BIOL 406-3	Fish Ecology
BIOL 412-3	Wildlife Ecology

Subject Requirements

Eighteen additional credit hours chosen from the following, of which at least six credit hours must be at the 400 level:

Any upper division (i.e. 300 or 400 level) Biology course

CHEM 308-3	Biochemistry Lab
ENVS 307-3	Physical Ecology
ENVS 406-3	Ecological Modelling
FSTY 309-3	Fire Ecology and Management

Elective Requirements

Twenty-four credit hours of electives in any subject at any level to ensure completion of a minimum of 126 credit hours.

• Joint Majors

Students interested in a Joint Major with Chemistry should consult the Joint Major section on page 27.

• Minor in Biology

The minor in Biology offers students in other disciplines the opportunity to gain a solid foundation in the diversity of life and biological processes.

The minor in Biology requires the completion of 26 credit hours, of which 12 credit hours must be at the upper division (i.e., 300 or 400 level). A maximum of six credit hours at the 200 level or beyond used to fulfill requirements for a major (or another minor) may also be used to fulfill program requirements for a minor in Biology.

Requirements

BIOL 101-4	Introductory Biology I
BIOL 102-4	Introductory Biology II

One of:

BIOL 201-3	Ecology
BIOL 210-3	Genetics

One of:

BIOL 202-3	Invertebrate Zoology
BIOL 203-3	Microbiology
BIOL 204-3	Plant Biology

One of:

BIOL 301-3	Systematic Botany
BIOL 305-3	Plant Morphology and Anatomy
BIOL 307-3	Ichthyology and Herpetology
BIOL 308-3	Ornithology and Mammalogy

One of:

BIOL 303-3	Plant Physiology
BIOL 311-3	Cell and Molecular Biology
BIOL 321-3	Animal Physiology

Six additional credit hours in Biology at the 400 level.

■ Business Administration (BComm Program)

The Faculty of Management offers a program leading to the degree of Bachelor of Commerce. This program provides education in business as well as exposure to the liberal arts, social sciences, and natural sciences. The program will initially offer students the ability to major in the areas of Accounting, Finance, General Business, International Business or Marketing. Other majors will be added in the future. Although all students must follow the program of study of at least one of the specified majors, the Bachelor of Commerce degree program has been designed to provide students with an exposure to all aspects of the contemporary business world. The objective of the program is to adequately prepare students to deal with the increasingly complex and dynamic environment in which business and labour must operate. While the program focuses on a wide range of business activities and types of organizations, special emphasis is placed on industries and firms of relevance to the region of northern British Columbia including small business/entrepreneurship, tourism and forestry. Exposure to these industries will occur within individual courses as part of course content, as well as through the use of relevant case studies and practica. In addition, individual courses relating to the industries emphasized are available either within the Commerce program, or through other relevant programs.

Admission to the Business Administration program may be by selection. Students will normally complete 30 credit hours of study prior to applying for admission to the program. Selection is normally based on GPA in the most recent 30 credit hours of UNBC (or equivalent) study.

The minimum requirement for completion of a Bachelor of Commerce is 120 credit hours.

Students in the Bachelor of Commerce program are expected to have a basic understanding of personal computing. This includes the use of a word processor, a spread sheet and data base programs. If this is not the case, students are encouraged to take CPSC 150-3 (Computer Applications).

Students not having the appropriate prerequisites for any courses must consult with a faculty advisor.

Common Requirement for all Business Administration Students

Lower Division Requirement

100 Level

COMM 100-3* Introduction to Canadian Business
 ECON 100-3 Microeconomics
 ECON 101-3 Macroeconomics
 MATH 150-3** Finite Mathematics for Business and Economics
 or MATH 220-3 Linear Algebra
 MATH 152-3** Calculus for Non-majors
 or MATH 100-3 Calculus I

*Students transferring with 30 or more credit hours are exempt from this requirement.

***Students wishing to pursue additional Math courses as electives are advised to choose MATH 100-3 (Calculus I) and MATH 220-3 (Linear Algebra).*

200 Level

COMM 210-3 Financial Accounting
 COMM 211-3 Managerial Accounting
 COMM 220-3 Financial Management I
 COMM 230-3 Organizational Behaviour
 COMM 240-3 Introduction to Marketing
 COMM 251-3 Introduction to Management Science
 ECON 205-3 Statistics for the Social and Management Sciences
 or MATH 242-3 Statistics for Social and Health Sciences

Upper Division Requirement

300 and 400 Level

COMM 300-3 Introduction to Business Law
 COMM 320-3 Financial Management II

COMM 330-3 Human Resource Management
 COMM 350-3 Production and Operations Management
 COMM 351-3 Management Information Systems
 COMM 400-3 Business Policy I
 ECON 310-3 Intermediate Microeconomic Theory
 ECON 311-3 Intermediate Macroeconomic Theory

• Major in Accounting

Every organization needs to keep track of its financial operations and financial position. Accounting is concerned with the measurement, provision, interpretation and application of financial and economic information for the efficiency and evaluation of an organization's operations. The information provided by the accounting function is employed for effective planning, control and decision making by management, and to report on the organization's financial operations to shareholders, debtholders, government and other stakeholders of the firm. Graduates with an accounting major are in demand by all sectors of the economy, including government, business, and public accounting firms. An Accounting major is recommended for students who wish to become Chartered Accountants (CAs), Certified General Accountants (CGAs), or Certified Management Accountants (CMAs).

The minimum requirement for a Bachelor of Commerce with a major in Accounting is 120 credit hours.

Core Requirement

Students completing a Bachelor of Commerce must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
 CORE 104-3 Life Sciences
- OR**
- CORE 102-3 Physical Sciences or
 CORE 104-3 Life Sciences and
 three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

COMM 100-3* Introduction to Canadian Business
 ECON 100-3 Microeconomics
 ECON 101-3 Macroeconomics
 MATH 150-3** Finite Mathematics for Business and Economics
 or MATH 220-3 Linear Algebra
 MATH 152-3** Calculus for Non-majors
 or MATH 100-3 Calculus I

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*Students transferring with 30 or more credit hours are exempt from this requirement.

***Students wishing to pursue additional Math courses as electives are advised to choose MATH 100-3 (Calculus I) and MATH 220-3 (Linear Algebra).*

Students in the Bachelor of Commerce program are expected to have a basic understanding of personal computing. This includes the use of a word processor, a spread sheet and data base programs. If this is not the case, students are encouraged to take CPSC 150-3 (Computer Applications).

200 Level

COMM 210-3 Financial Accounting
COMM 211-3 Managerial Accounting
COMM 220-3 Financial Management I
COMM 230-3 Organizational Behaviour
COMM 240-3 Introduction to Marketing
COMM 251-3 Introduction to Management Science
ECON 205-3 Statistics for the Social and Management Sciences
or MATH 242-3 Statistics for Social and Health Sciences

Upper Division Requirement

300 and 400 Level

COMM 300-3 Introduction to Business Law
COMM 310-3 Intermediate Financial Accounting I
COMM 311-3 Intermediate Financial Accounting II
COMM 312-3 Intermediate Managerial Accounting
COMM 320-3 Financial Management II
COMM 330-3 Human Resource Management
COMM 350-3 Production and Operations Management
COMM 351-3 Management Information Systems
COMM 400-3 Business Policy I
COMM 410-3 Accounting Theory
COMM 411-3 Advanced Management Accounting
ECON 310-3 Intermediate Microeconomic Theory
ECON 311-3 Intermediate Macroeconomic Theory
Six credit hours of elective Accounting courses

Elective Requirement

Thirty-three credit hours of electives in any subject at any level to ensure completion of a minimum of 120 credit hours.

• Major in Finance

Finance involves evaluating profitability and valuing real investments such as capital projects, as well as financial securities such as stocks, bonds, options and futures. In addition to the study of sources of capital and financing decisions of the firm and individual investors, the Finance major also studies the management of financial institutions

such as banks and trust companies. The tools of Finance are used by small and large firms, government and individual investors. Instruction in Finance provides valuable information regarding financing and evaluating investment opportunities to students planning to enter into business for themselves. Government and firms employ Finance majors as financial analysts as well as in general management positions. In addition, the financial services industry is one of the fastest growing industries in Canada. Individuals interested in positions in the financial sector, or pursuing either the Chartered Financial Planner (CFP) or Chartered Financial Analyst (CFA) designations, or completing the Canadian Securities Course (CSC), should consider majoring in Finance.

The minimum requirement for a Bachelor of Commerce with a major in Finance is 120 credit hours.

Core Requirement

Students completing a Bachelor of Commerce must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences
- OR
• CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

COMM 100-3* Introduction to Canadian Business
MATH 150-3** Finite Mathematics for Business and Economics
or MATH 220-3 Linear Algebra
MATH 152-3** Calculus for Non-majors
or MATH 100-3 Calculus I
ECON 100-3 Microeconomics
ECON 101-3 Macroeconomics

*Students transferring with 30 or more credit hours are exempt from this requirement.

***Students wishing to pursue additional Math courses as electives are advised to choose MATH 100-3 (Calculus I) and MATH 220-3 (Linear Algebra).*

Students in the Bachelor of Commerce program are expected to have a basic understanding of personal computing. This includes the use of a word processor, a spread sheet and data base programs. If this is not the case, students are encouraged to take CPSC 150-3 (Computer Applications).

200 Level

- COMM 210-3 Financial Accounting
- COMM 211-3 Managerial Accounting
- COMM 220-3 Financial Management I
- COMM 230-3 Organizational Behaviour
- COMM 240-3 Introduction to Marketing
- COMM 251-3 Introduction to Management Science
- ECON 205-3 Statistics for the Social and Management Sciences
or MATH 242-3 Statistics for Social and Health Sciences

Upper Division Requirement

300 and 400 Level

- COMM 300-3 Introduction to Business Law
 - COMM 320-3 Financial Management II
 - COMM 321-3 Investments and Security Analysis
 - COMM 330-3 Human Resource Management
 - COMM 350-3 Production and Operations Management
 - COMM 351-3 Management Information Systems
 - COMM 400-3 Business Policy I
 - COMM 420-3 Advanced Financial Management
 - COMM 422-3 Management of Financial Institutions
 - ECON 310-3 Intermediate Microeconomic Theory
 - ECON 311-3 Intermediate Macroeconomic Theory
- Six credit hours of elective Finance courses.

Elective Requirement

Thirty-nine credit hours of electives in any subject at any level to ensure completion of a minimum of 120 credit hours.

• Major in General Business

The General Business major allows students to obtain a reasonable depth of knowledge in all the functional areas of business, while maintaining a broad-based education in business management. This combination provides the integrative management skills to operate both within and across functional responsibility areas, an ability valued highly by employers. Therefore, General Business majors are in demand by many firms and government organizations. Students intending to start their own business endeavours would also be well-served by the General Business major.

The minimum requirement for a Bachelor of Commerce with a major in General Business is 120 credit hours.

Core Requirement

Students completing a Bachelor of Commerce must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences

OR

- CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

- COMM 100-3* Introduction to Canadian Business
- ECON 100-3 Microeconomics
- ECON 101-3 Macroeconomics
- MATH 150-3** Finite Mathematics for Business and Economics
or MATH 220-3 Linear Algebra
- MATH 152-3** Calculus for Non-majors
or MATH 100-3 Calculus I

*Students transferring with 30 or more credit hours are exempt from this requirement.

***Students wishing to pursue additional Math courses as electives are advised to choose MATH 100-3 (Calculus I) and MATH 220-3 (Linear Algebra).*

Students in the Bachelor of Commerce program are expected to have a basic understanding of personal computing. This includes the use of a word processor, a spread sheet and data base programs. If this is not the case, students are encouraged to take CPSC 150-3 (Computer Applications).

200 Level

- COMM 210-3 Financial Accounting
- COMM 211-3 Managerial Accounting
- COMM 220-3 Financial Management I
- COMM 230-3 Organizational Behaviour
- COMM 240-3 Introduction to Marketing
- COMM 251-3 Introduction to Management Science
- ECON 205-3 Statistics for the Social and Management Sciences
or MATH 242-3 Statistics for Social and Health Sciences

Upper Division Requirement

300 and 400 Level

- COMM 300-3 Introduction to Business Law
- COMM 302-3 Entrepreneurship
- COMM 320-3 Financial Management II
- COMM 330-3 Human Resource Management
- COMM 350-3 Production and Operations Management

UNDERGRADUATE PROGRAMS: BUSINESS ADMINISTRATION

COMM 351-3 Management Information Systems
COMM 400-3 Business Policy I
ECON 310-3 Intermediate Microeconomic Theory
ECON 311-3 Intermediate Macroeconomic Theory
Twelve credit hours of elective Commerce courses (with no more than six credit hours in any one major area).

Elective Requirement

Thirty-nine credit hours of electives in any subject at any level to ensure completion of a minimum of 120 credit hours.

• Major in International Business

In recent years the importance of an international perspective for students of business has increased as a result of the increasing globalization of the economy. The International Business major exposes students to the impact of the international environment on the functional areas of business management. In conjunction with courses in the International Studies program, the major in International Business allows students to focus on a country or region of the world, providing education in language, culture and business practice. Graduates are suited to work in firms or government agencies involved in international operations.

The minimum requirement for a Bachelor of Commerce with a major in International Business is 120 credit hours.

Core Requirement

Students completing a Bachelor of Commerce must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences
- **OR**
- CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

COMM 100-3* Introduction to Canadian Business
ECON 100-3 Microeconomics
ECON 101-3 Macroeconomics
INTS 101-3 Canada and the World
or INTS 205-3 Introduction to International Studies

MATH 150-3** Finite Mathematics for Business and Economics
or MATH 220-3 Linear Algebra
MATH 152-3** Calculus for Non-majors
or MATH 100-3 Calculus I

*Students transferring with 30 or more credit hours are exempt from this requirement.

**Students wishing to pursue additional Math courses as electives are advised to choose MATH 100-3 (Calculus I) and MATH 220-3 (Linear Algebra).

Students in the Bachelor of Commerce program are expected to have a basic understanding of personal computing. This includes the use of a word processor, a spread sheet and data base programs. If this is not the case, students are encouraged to take CPSC 150-3 (Computer Applications).

200 Level

COMM 210-3 Financial Accounting
COMM 211-3 Managerial Accounting
COMM 220-3 Financial Management I
COMM 230-3 Organizational Behaviour
COMM 240-3 Introduction to Marketing
COMM 251-3 Introduction to Management Science
ECON 205-3 Statistics for the Social and Management Sciences
or MATH 242-3 Statistics for Social and Health Sciences

Upper Division Requirement

300 and 400 Level

COMM 300-3 Introduction to Business Law
COMM 303-3 Introduction to International Business
COMM 320-3 Financial Management II
COMM 330-3 Human Resource Management
COMM 350-3 Production and Operations Management
COMM 351-3 Management Information Systems
COMM 400-3 Business Policy I
ECON 310-3 Intermediate Microeconomic Theory
ECON 311-3 Intermediate Macroeconomic Theory

Three of:

COMM 315-3 International Accounting
COMM 322-3 International Financial Management
COMM 432-3 Cross-cultural Workplace Practices
COMM 441-3 International Marketing

International Studies Requirement

Six credit hours of International Studies courses at any level.

Elective Requirement

Thirty-three credit hours of electives in any subject at any level to ensure completion of 120 credit hours.

• Major in Marketing

Marketing refers to the set of activities needed to find, build, and serve markets for products and services. Students of marketing will acquire analytical tools from economics, mathematics, statistics and the social and behavioural sciences. A major in Marketing is useful for such positions as account representatives, brand managers, advertising executives and market researchers. Marketing majors may find employment in the private sector, in non-profit organizations and in government. Marketing concepts and principles are of particular importance to small businesses and new business ventures.

The minimum requirement for a Bachelor of Commerce with a major in Marketing is 120 credit hours.

Core Requirement

Students completing a Bachelor of Commerce must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences
- OR**
- CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

COMM 100-3* Introduction to Canadian Business
 ECON 100-3 Microeconomics
 ECON 101-3 Macroeconomics
 MATH 150-3** Finite Mathematics for Business and Economics
 or MATH 220-3 Linear Algebra
 MATH 152-3** Calculus for Non-majors
 or MATH 100-3 Calculus I

*Students transferring with 30 or more credit hours are exempt from this requirement.

***Students wishing to pursue additional Math courses as electives are advised to choose MATH 100-3 (Calculus I) and MATH 220-3 (Linear Algebra).*

Students in the Bachelor of Commerce program are expected to have a basic understanding of personal computing. This includes the use of a word processor, a spread sheet and data base programs. If this is not the case, students are encouraged to take CPSC 150-3 (Computer Applications).

200 Level

COMM 210-3 Financial Accounting
 COMM 211-3 Managerial Accounting
 COMM 220-3 Financial Management I
 COMM 230-3 Organizational Behaviour
 COMM 240-3 Introduction to Marketing
 COMM 251-3 Introduction to Management Science
 ECON 205-3 Statistics for the Social and Management Sciences
 or MATH 242-3 Statistics for Social and Health Sciences

Upper Division Requirement

300 and 400 Level

COMM 300-3 Introduction to Business Law
 COMM 320-3 Financial Management II
 COMM 330-3 Human Resource Management
 COMM 343-3 Consumer Behaviour
 COMM 350-3 Production and Operations Management
 COMM 351-3 Management Information Systems
 COMM 400-3 Business Policy I
 COMM 442-3 Marketing Strategy
 COMM 443-3 Marketing Research
 ECON 310-3 Intermediate Microeconomic Theory
 ECON 311-3 Intermediate Macroeconomic Theory
 Six credit hours of electives in Marketing.

Elective Requirement

Thirty-nine credit hours of electives in any subject at any level to ensure completion of 120 credit hours.

■ Chemistry (BSc Program)

Chemistry is the fundamental science that deals with the nature of substances and the changes occurring in them. Chemical reactions are the basis of all life. Everything we are or do depends in one way or another on chemistry. A major in chemistry or minor in biochemistry prepares you for a variety of careers in industry, education, ecology, and public service, or for graduate study and research in chemistry and many related fields.

• Major in Chemistry

The major in Chemistry requires students to take at least 63 credit hours of Chemistry, 36 credit hours of which must be upper division (i.e., 300 or 400 level).

The minimum requirement for completion of a Bachelor of Science with a major in Chemistry is 127 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Sciences
- OR**
- CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

BIOL 101-4	Introductory Biology I
BIOL 102-4	Introductory Biology II
CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
CHEM 120-0.5	General Chemistry Lab I
CHEM 121-0.5	General Chemistry Lab II
CPSC 100-4	Computer Programing I
	or CPSC 110-3 Introduction to Computer Systems and Programing
MATH 100-3	Calculus I
MATH 101-3	Calculus II
PHYS 110-4	Introductory Physics I: Mechanics
PHYS 111-4	Introductory Physics II: Waves and Electricity

200 Level

CHEM 200-3	Physical Chemistry I
CHEM 201-3	Organic Chemistry I
CHEM 202-3	Inorganic Chemistry I
CHEM 203-3	Organic Chemistry II
CHEM 204-3	Biochemistry I
CHEM 210-3	Analytical Chemistry I
CHEM 250-1	Organic Chemistry Lab I
CHEM 251-1	Organic Chemistry Lab II
MATH 220-3	Linear Algebra

One of :

MATH 200-3	Calculus III
MATH 201-3	Analysis I
MATH 332-3	Differential Equations
MATH 340-3	Introduction to Probability

Upper Division Requirement

300 Level

CHEM 300-3	Physical Chemistry II
	or CHEM 305-3 Physical Chemistry III
CHEM 310-3	Analytical Chemistry II
	or CHEM 311-3 Analytical Chemistry III
CHEM 313-1.5	Physical Chemistry Lab I
CHEM 314-1.5	Physical Chemistry Lab II
CHEM 320-3	Inorganic Chemistry II
	or CHEM 321-3 Inorganic Chemistry III
CHEM 322-3	Inorganic Chemistry Lab

400 Level

CHEM 401-3	Chemistry Seminar
CHEM 406-3	Research Project I
CHEM 407-3	Research Project II

*Nine credit hours of 300 or 400 level Chemistry.
*Three credit hours of 400 level Chemistry.

*A minimum of four courses must be completed.

Elective Requirement

Twenty-four credit hours at the 300 or 400 level in any subject to ensure completion of a minimum of 60 credit hours of upper division study.

Three credit hours in any subject at any level to ensure completion of a minimum of 127 credit hours.

Course Selection

Students interested in the Chemistry program of study should select courses in their first four semesters according to the schedule below. For availability of courses at the 300 and 400 level, students should consult with the academic advisor in the Chemistry program.

Semester One (Fall)

<i>CHEM 100-3</i>	<i>General Chemistry I</i>
<i>CHEM 120-0.5</i>	<i>General Chemistry Lab I</i>
<i>BIOL 101-4</i>	<i>Introductory Biology I</i>
<i>CPSC 100-4</i>	<i>Computer Programing I</i>
<i>MATH 100-3</i>	<i>Calculus I</i>
<i>PHYS 110-4</i>	<i>Introductory Physics I: Mechanics</i>

Semester Two (Winter)

<i>CHEM 101-3</i>	<i>General Chemistry II</i>
<i>CHEM 121-0.5</i>	<i>General Chemistry Lab II</i>
<i>MATH 101-3</i>	<i>Calculus II</i>
<i>PHYS 111-4</i>	<i>Introductory Physics II: Waves and Electricity</i>
<i>BIOL 102-4</i>	<i>Introductory Biology II</i>
<i>CORE 101-3</i>	<i>Humanities / CORE 103-3 Social Sciences or approved CORE alternative</i>

Semester Three (Fall)

CHEM 200-3 Physical Chemistry I
 CHEM 201-3 Organic Chemistry I
 CHEM 210-3 Analytical Chemistry I
 CHEM 250-1 Organic Chemistry Lab I
 CORE 101-3 Humanities / CORE 103-3 Social Sciences
 or approved CORE alternative

Three Math or elective credits

Semester Four (Winter)

CHEM 202-3 Inorganic Chemistry I
 CHEM 203-3 Organic Chemistry II
 CHEM 204-3 Biochemistry I
 CHEM 251-1 Organic Chemistry Lab II
 MATH 220-3 Linear Algebra

Three Math or elective credits

• Joint Majors

Students interested in Joint Majors with Biology, Computer Science, Mathematics, or Physics should consult the Joint Major section on page 27.

• Minor in Chemistry

The minor in Chemistry is designed to provide students with a solid grounding and a core of study in one or more of the subdisciplines of Chemistry. Thus some flexibility is permitted in satisfying the requirements for a minor. Students have the option to study a range of subdisciplines at the 300 level while counting the 200 level prerequisites toward the minor or to focus on particular subdisciplines through to the 400 level. A maximum of six courses (13 credit hours) of the 100 and 200 level courses used to fulfill requirements for a major (or another minor) may also be used toward a minor in Chemistry.

The minimum requirement for completion of the minor in Chemistry is 28 credit hours.

100 Level

CHEM 100-3 General Chemistry I
 CHEM 101-3 General Chemistry II
 CHEM 120-0.5 General Chemistry Lab I
 CHEM 121-0.5 General Chemistry Lab II

200 Level

At least nine credit hours from:

CHEM 200-3 Physical Chemistry I
 CHEM 201-3* Organic Chemistry I
 CHEM 202-3 Inorganic Chemistry I
 CHEM 203-3* Organic Chemistry II

CHEM 204-3* Biochemistry I
 CHEM 210-3 Analytical Chemistry I
 CHEM 250-1 Organic Chemistry Lab I
 CHEM 251-1 Organic Chemistry Lab II

*Note: students required to take CHEM 220-3 (Organic and Biochemistry) and CHEM 221-1 (Organic and Biochemistry Lab) for their majors program should substitute CHEM 201-3 (Organic Chemistry I), CHEM 203-3 (Organic Chemistry II) and CHEM 204-3 (Biochemistry I). Four of these credit hours would count toward a major, and the rest toward the Chemistry minor.

Note: selections made should incorporate prerequisites for intended upper division courses.

300 and 400 Level

At least 12 credit hours from :

CHEM 300-3 Physical Chemistry II
 CHEM 301-3 Advanced Organic Chemistry I
 CHEM 302-4 Environmental Chemistry I
 CHEM 303-3 Quantum Chemistry
 CHEM 304-3 Advanced Organic Chemistry II
 CHEM 305-3 Physical Chemistry III
 CHEM 306-3 Biochemistry II
 CHEM 307-3 Biochemistry III
 CHEM 308-3 Biochemistry Lab
 CHEM 310-3 Analytical Chemistry II
 CHEM 311-3 Analytical Chemistry III
 CHEM 312-3 Organic Chemistry Lab III
 CHEM 313-1.5 Physical Chemistry Lab I
 CHEM 314-1.5 Physical Chemistry Lab II
 CHEM 320-3 Inorganic Chemistry II
 CHEM 321-3 Inorganic Chemistry III
 CHEM 322-3 Inorganic Chemistry Lab
 CHEM 400-3 Topics in Environmental Chemistry
 CHEM 402-3 Topics in Organic Chemistry
 CHEM 403-3 Topics in Inorganic Chemistry
 CHEM 404-3 Topics in Physical Chemistry
 CHEM 405-3 Topics in Biochemistry
 CHEM 408-3 Environmental Chemistry II

• Minor in Biochemistry

The minor in Biochemistry is designed to provide students with a core of study in the field of Biochemistry. The program of study includes a grounding in organic chemistry and biology, since these are the traditional disciplines from which modern Biochemistry was born. Thus, in addition to the required courses in Biochemistry, students will be required to complete six credit hours of organic chemistry at the 200 level, and at least two courses in Biology.

The minimum requirement for completion of the minor in Biochemistry is 27 credit hours.

200 Level

BIOL 210-3 Genetics
 CHEM 201-3* Organic Chemistry I
 CHEM 203-3* Organic Chemistry II
 CHEM 204-3* Biochemistry I

*Note: students required to take CHEM 220-3 (Organic and Biochemistry) and CHEM 221-1 (Organic and Biochemistry Lab) for their majors program should substitute CHEM 201-3 (Organic Chemistry I), CHEM 203-3 (Organic Chemistry II) and CHEM 204-3 (Biochemistry I).

300 Level

BIOL 311-3 Cell and Molecular Biology
 CHEM 306-3 Biochemistry II
 CHEM 307-3 Biochemistry III

One of :

BIOL 303-3 Plant Physiology
 BIOL 321-3 Animal Physiology
 CHEM 308-3 Biochemistry Lab

400 Level

CHEM 405-3 Topics in Biochemistry

■ Computer Science (BSc Program)

The Computer Science program gives students a thorough exposure to basic areas like computer architecture, programming languages and methodology, algorithms and data structures, systems programming, operating systems and networking, knowledge-based and database systems, software engineering, and theory. The student will develop the advanced practical computing and problem-solving skills required for professional work in modern industry, based on a strong conceptual foundation and on insights into the nature of this rapidly changing field. Each student will use advanced development tools, and will be encouraged to approach problem-solving from a multidisciplinary point of view. The program emphasizes direct co-operation with industry.

• Major in Computer Science

A major in Computer Science requires at least 19 Computer Science courses and at least 61 credit hours in Computer Science, at least 27 hours of which must be upper division courses, and of those upper division credits, at least 12 must be taken at the 400 level. No more than 65 credit hours of Computer Science may be taken without the approval of the Program Chair.

The minimum requirement for completion of a Bachelor of Science with a major in Computer Science is 120 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
 CORE 103-3 Social Sciences

OR

- CORE 101-3 Humanities or
 CORE 103-3 Social Sciences and
 three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Note: Students enrolling in any Computer Science or Mathematics course with prerequisites are required to have completed all prerequisite courses for that course with C- or better, or have permission to enrol from the Program Chair.

Lower Division Requirement

100 Level

CPSC 100-4 Computer Programming I
 CPSC 101-4 Computer Programming II
 CPSC 141-3 Discrete Computational Mathematics
 MATH 100-3 Calculus I
 or MATH 105-3 Enriched Calculus
 MATH 101-3 Calculus II

200 Level

CPSC 200-3 Data Structures and Algorithm Analysis
 CPSC 230-4 Computer Architecture I
 CPSC 231-4 Computer Architecture II
 CPSC 241-3 Discrete Computational Mathematics II
 CPSC 281-3 Data Structures I
 MATH 220-3 Linear Algebra

General Science Requirements

Two of:

BIOL 101-4 Introductory Biology I
 BIOL 102-4 Introductory Biology II
 BIOL 201-3 Ecology
 BIOL 203-3 Microbiology
 CHEM 100-3 General Chemistry I
 CHEM 101-3 General Chemistry II
 CHEM 200-3 Physical Chemistry I
 CHEM 201-3 Organic Chemistry I
 CHEM 202-3 Inorganic Chemistry I
 CHEM 203-3 Organic Chemistry II
 CHEM 204-3 Biochemistry I
 PHYS 100-4 Introduction to Physics I
 or PHYS 110-4 Introductory Physics I:
 Mechanics

PHYS 111-4	Introductory Physics II: Waves and Electricity
PHYS 200-3	Thermal Physics
PHYS 202-4	Electromagnetism and Optics
PHYS 205-3	Modern Physics I
PHYS 206-4	Modern Physics II

Note: PHYS 110-4 (Introductory Physics I: Mechanics) and PHYS 111-4 (Introductory Physics II: Waves and Electricity) are strongly recommended for all majors.

Upper Division Requirement

300 Level

CPSC 320-3	Programing Languages
CPSC 321-3	Operating Systems
CPSC 325-3	Introduction to Compiler Design
CPSC 340-3	Theory of Computation
CPSC 370-3	Functional and Logic Programing
MATH 340-3	Introduction to Probability

While not required for the major, students are urged to include CPSC 300-3 (Software Engineering I) and CPSC 301-3 (Software Engineering II) in their program.

400 Level

At least 12 credit hours of Computer Science courses must be taken at the 400 level, and at least nine of these credit hours must be outside the seminar, project course, research course, or special topics course category.

Alternate courses may be substituted for the above with the written permission of the Program Chair and Dean of the College.

Subject Requirement

Six additional credit hours of computer science at any level.

Elective Requirement

Thirty-three to 35 credit hours of electives at any level and in any subject to ensure completion of a minimum of 120 credit hours.

• Joint Majors

Students interested in Joint Majors with Chemistry, Mathematics, or Physics should consult the Joint Major section on page 27.

■ Economics (BA Program)

Economics as a discipline is constructed around the need to identify agents in the economy and analyze their interactions. As such it is based upon deriving generalizations by identifying behavioural rules and examining causal relationships between economic variables. The emphasis on examining causal relationships is a distinguishing feature of economics and forms an important part of its claim to be a social science. As well as addressing these central concerns, the Economics program recognizes the interaction between the economy and other broader social, political, cultural and technological forces. The program therefore places special emphasis on courses which analyze institutions, facilitate comparative studies, encourage a historical approach, and recognize the pervasiveness of technological change.

• Major in Economics

Undergraduate students are required to take 17 Economics courses (51 credit hours). Of these, 12 courses (36 credit hours) are at the upper division level.

The minimum requirement for completion of a Bachelor of Arts with a major in Economics is 120 credit hours.

Core Requirement

Students completing a Bachelor of Arts must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences

OR

- CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

ECON 100-3	Microeconomics
ECON 101-3	Macroeconomics
COMM 100-3	Introduction to Canadian Business or POLS 100-3 Contemporary Political Issues or INTS 101-3 Canada and the World
MATH 150-3	Finite Mathematics for Business and Economics or MATH 220-3 Linear Algebra
MATH 100-3	Calculus I or MATH 152-3 Calculus for Non-majors

200 Level

ECON 202-3	History of Economic Thought
ECON 203-3	Canadian Economic History
ECON 205-3	Statistics for the Social and Management Sciences

Upper Division Requirements

300/400 Level

ECON 310-3	Intermediate Microeconomic Theory
ECON 311-3	Intermediate Macroeconomic Theory
ECON 312-3	Introduction to Econometrics

Twenty-seven credit hours of 300 or 400 level Economics.

Students wishing to pursue graduate studies in Economics are strongly advised to take ECON 320-3 (Introduction to Mathematical Economics) and ECON 451-3 (Advanced Microeconomic Theory) and/or ECON 452-3 (Advanced Macroeconomic Theory).

Elective Requirement

Fifty-four credit hours of electives in any subject at any level to ensure completion of a minimum of 120 credit hours.

• Minor in Economics

The minor in Economics requires the completion of 24 credit hours. Students must complete:

ECON 100-3	Microeconomics
ECON 101-3	Macroeconomics

Two of:

ECON 202-3	History of Economic Thought
ECON 203-3	Canadian Economic History
ECON 205-3	Statistics for the Social and Management Sciences

Twelve credit hours of 300 or 400 level Economics courses.

A maximum of 4 courses (12 credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Economics.

Alternative courses may be substituted for the above with written permission of the Program Chair and Dean.

■ English (BA Program)

UNBC's English program includes course offerings in Canadian, British, American and International English literatures as well as world literature in English translation, and literary theory. Key areas include First Nations Literature, Canadian Literature, Comparative Literature, Women's Literature, Feminist Criticism and Theory, literature and media technology, and the relationship between literature and other disciplines. Creative writing and other kinds of writing courses are also available. The program encourages interdisciplinarity between literature, cultural studies, and science or technology. Computer literacy is a priority, as is the delivery of courses on the World Wide Web. The interdisciplinary perspective prepares students for a number of graduate or professional programs (e.g. English, Journalism, Creative Writing, Law, Education, Business) or employment in the public or private sectors.

• Major in English

The major in English requires students to take 18 English courses (54 credit hours) at least 30 credit hours of which will be upper division courses (300 and 400 level). Students wishing to take more than 66 credit hours in English must obtain written permission from the Chair of the English Program.

The minimum requirement for completion of a Bachelor of Arts with a major in English is 120 credit hours.

Core Requirement

Students completing a Bachelor of Arts must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences
- OR
- CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Subject Requirement

The major in English requires students to take 54 credit hours of English or approved ancillary courses and must include:

ENGL 101-3 Introduction to Literary Theory
or ENGL 400-3 Contemporary Theory

One of:

ENGL 280-3	Shakespeare
ENGL 281-3	Renaissance Literature
ENGL 282-3	Restoration and 18th Century Literature
ENGL 381-3	Renaissance Literature
ENGL 382-3	Restoration and 18th Century Literature

One of:

ENGL 283-3	Romantic Literature
ENGL 284-3	Victorian Literature
ENGL 383-3	Romantic Literature
ENGL 384-3	Victorian Literature
ENGL 386-3	Pre-Twentieth-Century American Literature

Three of:

ENGL 200-3	Gender and Literary Theory
ENGL 210-3	Women and Literature
ENGL 320-3	First Nations Literature
ENGL 340-3	Postcolonial Literature
ENGL 350-3	Comparative Literature
ENGL 410-3	Women and Literature
ENGL 420-3	First Nations Literature
ENGL 440-3	Postcolonial Literature I
ENGL 450-3	Comparative Literature

Thirty-six additional credit hours of English or approved ancillary courses (chosen to ensure fulfillment of Upper Division Requirement).

Note: a maximum of three ancillary courses may be used to fulfill English subject requirements.

It is recommended that English majors include the following in their course choices:

ENGL 100-3	Introduction to Literary Structure
ENGL 300-3	Theory

Upper Division Requirement

At least 30 credit hours of the 54 required must be at 300 or 400 level, with at least three of these at 400 level.

Any of the required 300 or 400 level courses specified above can count towards the 30 credit hours required at 300 or 400 level.

Elective Requirement

Sixty credit hours of electives in any subject at any level to ensure completion of a minimum of 120 credit hours.

Approved Ancillary Courses for a Major in English

Up to three of the following ancillary courses may be counted towards the English major requirements, but none may be counted towards an English minor.

WMST 209-3	Gender and Cultural Studies: An Introduction
WMST 304-3	Contemporary Women's Writing in an International Frame
WMST 305-3	Gender, Nationalism and Culture
WMST 309-3	Gender and Film
WMST 310-3	Indigenous Women: Perspectives
WMST 311-3	History of Feminist Theories
WMST 401-3	Women and Visual Pleasures: Fashion, Film, Fine Arts and Photography
WMST 403-3	Science, Technology, and Women's Lives
WMST 411-3	Contemporary Feminist Theories

• Minor in English

The minor in English requires that students take at least six English courses (18 credit hours), at least four of which must be upper division. A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in English.

One of:

ENGL 101-3	Introduction to Literary Theory
ENGL 300-3	Theory
ENGL 400-3	Contemporary Theory

Five English courses selected to ensure a minimum of four courses are completed at the 300 or 400 level.

■ Environmental Studies (BA and BSc Programs)

Environmental and ecological problems are of increasing concern to Canadians. In northern British Columbia, the concerns are especially acute in a primarily resource-based economy. The Environmental Studies program recognizes the complex nature of these issues through the integrated approach contained in the three degree offerings: the major in Environmental Science, the major in Environmental Planning, and the major in Environmental Studies.

BA Program

• Major in Environmental Studies

The Bachelor of Arts in Environmental Studies emphasizes a social science and humanities perspective on environmental issues. The program concentrates on issues arising from resource use and the effects of that use on the environment. Conflicting uses, political processes and value systems related to natural resources are studied.

UNDERGRADUATE PROGRAMS: ENVIRONMENTAL STUDIES

Degree requirements: 86 credit hours
Elective credits: 36 credit hours (of which 15 must be upper division)

The minimum requirement for completion of a Bachelor of Arts with a major in Environmental Studies is 122 credit hours.

Core Requirement

Students completing a Bachelor of Arts must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences
- **OR**
- CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

BIOL 101-4 Introductory Biology I
BIOL 102-4 Introductory Biology II
ECON 100-3 Microeconomics
ENVS 104-3 Introduction to Planning
ENVS 100-3 Environments and People
or GEOG 100-3 Environments and People
POLS 100-3 Contemporary Political Issues

Note: CPSC 150-3 (Computer Applications) is recommended for students without computing experience. Students are strongly encouraged to take an appropriate methodology course as part of their electives.

200 Level

BIOL 201-3 Ecology
ENVS 203-3 Environmental Policy
ENVS 204-3 Principles and Practices of Planning
ENVS 205-3 Environment and Society
GEOG 205-3 Spatial Data Techniques
POLS 200-3 Canadian Government and Politics

Upper Division Requirement

300 Level

ENVS 301-3 Sustainable Communities: Structure and Sociology
ENVS 305-3 Environmental Impact Assessment
ENVS 306-3 Human Ecology

ENVS 308-3 Northern Environments
ENVS 309-3 Women and Environmental Studies
or WMST 408-3 Women, Power, and Environments
INTS 307-3 Global Resources
or GEOG 401-3 Resource Geography
NREM 303-3 First Nations' Approaches to Resource Management

400 Level

ENVS 401-3 Environmental Law
ENVS 413-3 Environmental Planning
ENVS 414-3 Environmental and Professional Ethics
ENVS 416-3 Ecological Economics
ENVS 419-3 Social Research Methods
HIST 421-3 Topics in Environmental History
POLS 401-3 Resource Politics

The Research Methodology and Undergraduate Thesis (ENVS 420-1 and ENVS 430-3) are optional courses.

Elective Requirement

Fifteen credit hours of electives in any subject at the 300 or 400 level.
Twenty-one additional credit hours of electives in any subject at any level to ensure completion of a minimum of 122 credit hours.

BSc Program

The Bachelor of Science in Environmental Studies offers two majors, the major in Environmental Science and the major in Environmental Planning.

• Major in Environmental Science

The Environmental Science Bachelor of Science degree is an interdisciplinary one in which students take a core curriculum in the environmental sciences with a focus in the area of their choice. Students in this degree will gain an appreciation of the fundamental biological, chemical and physical aspects integral to the field of environmental science. In addition, they will receive exposure to the human dimensions that underlie many of these issues. This approach will ensure a uniform preparation among students and allow for the development of a diversity of expertise necessary to address the complexity of present environmental problems and future unanticipated ones.

Degree requirements: 99 credit hours
Area of focus: 12 credit hours
Elective credits: 15 credit hours

The minimum requirement for a Bachelor of Science with a major in Environmental Science is 126 credit hours.

Core Requirements

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Sciences
- OR**
- **CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

***Students without a background in political science should select this option and take POLS 100-3 (Contemporary Political Issues) as the alternate.*

Program Requirements

Important: Courses with an asterisk () have prerequisites not taken in the major requirements; it is the student's responsibility to ensure that they have completed the required prerequisites.

Lower Division Requirement

100 Level

BIOL 101-4 Introductory Biology I
 BIOL 102-4 Introductory Biology II
 CHEM 100-3 General Chemistry I
 CHEM 101-3 General Chemistry II
 CHEM 120-0.5 General Chemistry Lab I
 CHEM 121-0.5 General Chemistry Lab II
 MATH 100-3 Calculus I
 MATH 101-3 Calculus II
 PHYS 100-4 Introduction to Physics I
 and PHYS 101-4 Introduction to Physics II

or PHYS 110-4 Introductory Physics I: Mechanics
 and PHYS 111-4 Introductory Physics II: Waves and Electricity

Note: CPSC 110-3 (Introduction to Computer Systems and Programing) is recommended for students without computer programing experience and ENVS100-3 or GEOG100-3 (Environments and People) is recommended for all students.

Note: Students selecting Physical Processes and Modelling as their area of focus must take CPSC 110-3 (Introduction to Computer Systems and Programing) or CPSC 100-4 (Computer Programing I) and CPSC 101-4 (Computer Programing II) as electives.

200 Level

BIOL 201-3 Ecology
 ENVS 201-3 Introduction to Atmospheric Science

ENVS 202-3 Introduction to Aquatic Systems
 ENVS 203-3* Environmental Policy
 GEOG 205-3 Spatial Data Techniques
 GEOG 210-3 Geomorphology

Three from the following list, including one Biology and one Chemistry:

BIOL 202-3 Invertebrate Zoology
 BIOL 203-3* Microbiology
 BIOL 204-3 Plant Biology
 BIOL 301-3 Systematic Botany
 BIOL 307-3 Ichthyology and Herpetology
 BIOL 308-3 Ornithology and Mammalogy
 CHEM 200-3 Physical Chemistry I
 CHEM 201-3 Organic Chemistry I
 CHEM 202-3 Inorganic Chemistry I
 CHEM 203-3 Organic Chemistry II
 CHEM 204-3 Biochemistry I
 FSTY 205-3 Forest Soils
 MATH 200-3* Calculus III
 PHYS 200-3* Thermal Physics
 PHYS 202-4* Electromagnetism and Optics

Note: Selections made will affect prerequisites for courses chosen in third and fourth years especially regarding the area of focus.

Note: Students selecting Physical Processes and Modelling as their area of focus must complete MATH 200-3 (Calculus III).

Upper Division Requirement

300 Level

BIOL 303-3 Plant Physiology
 or BIOL 321-3 Animal Physiology
 CHEM 302-4 Environmental Chemistry I
 ENVS 308-3 Northern Environments
 MATH 342-3 Biostatistics
 or MATH 341-3* Introduction to Statistics
 PHYS 307-3 Selected Topics in Environmental Physics

One of:

BIOL 302-3 Limnology
 ENVS 307-3 Physical Ecology
 ENVS 312-3 Boundary-layer Meteorology

One of:

ENVS 309-3 Women and Environmental Studies
 FNST 304-3 First Nations Environmental Philosophy and Knowledge
 GEOG 403-3* Aboriginal Geography
 INTS 340-3* The Circumpolar North in Global Perspective
 INTS 350-3* Pacific Relations

400 Level

ENVS 406-3 Ecological Modelling
 ENVS 414-3 Environmental and Professional Ethics
 ENVS 418-3 Environmental Measurement and Analysis

UNDERGRADUATE PROGRAMS: ENVIRONMENTAL STUDIES

One of:

BIOL 410-3	Population and Community Ecology
ENVS 408-3	Macro-meteorology
GEOG 311-3	Advanced Geomorphology (formerly GEOG 410-3)

One of:

ENVS 302-3	Energy Development
ENVS 305-3	Environmental Impact Assessment
ENVS 401-3*	Environmental Law
ENVS 404-3	Hazardous Waste Management
ENVS 416-3*	Ecological Economics
NREM 410-3	Watershed Management

The Research Methodology and Undergraduate Thesis (ENVS 420-1 and ENVS 430-3) are optional courses.

Areas of Focus

Four courses chosen from one of the following lists are required, with the provision that: 1) at least two of the courses must be at the 400 level; and 2) courses used to fulfill major requirements above may not be used to fulfill an area focus requirement.

Note: It is the student's responsibility to ensure prerequisite courses have been completed for the courses marked with an asterisk () below.

- 1) Biological Processes
- 2) Earth System Processes
- 3) Chemical Processes
- 4) Physical Processes and Modelling

Biological Processes

BIOL 302-3	Limnology
BIOL 311-3*	Cell and Molecular Biology
BIOL 322-3	Entomology
BIOL 402-3	Aquatic Plants
BIOL 403-3*	Evolutionary Biology
BIOL 406-3*	Fish Ecology
BIOL 410-3	Population and Community Ecology
BIOL 411-3*	Conservation Biology
ENVS 307-3	Physical Ecology
ENVS 312-3	Boundary-layer Meteorology
FSTY 307-4*	Forest Health
GEOG 300-3	Geographical Information Systems
PHYS 413-3	Radiological and Health Physics

Earth System Processes

BIOL 302-3	Limnology
ENVS 307-3	Physical Ecology
ENVS 312-3	Boundary-layer Meteorology
ENVS 402-3	Terrain Assessment
ENVS 408-3	Macro-meteorology
ENVS 412-3	Air Pollution
FSTY 455-3	Biogeochemical Processes in Soil Systems
GEOG 300-3	Geographical Information Systems
GEOG 310-3	Hydrology

GEOG 311-3	Advanced Geomorphology (formerly GEOG 410-3)
GEOG 405-3*	Fluvial Geomorphology
GEOG 411-3	Geomorphology of Northern BC
GEOG 412-3	Geomorphology of Cold Regions

Chemical Processes

CHEM 210-3	Analytical Chemistry I
CHEM 306-3	Biochemistry II
CHEM 307-3	Biochemistry III
CHEM 308-3	Biochemistry Lab
CHEM 310-3*	Analytical Chemistry II
CHEM 311-3*	Analytical Chemistry III
CHEM 400-3	Topics in Environmental Chem
CHEM 405-3	Topics in Biochemistry
CHEM 408-3	Environmental Chemistry II
FSTY 455-3	Biogeochemical Processes in Soil Systems

Physical Processes and Modelling

Note: Students taking this focus must select MATH 200-3 (Calculus III) in their second year and take CPSC 110-3 (Introduction to Computer Systems and Programming), or both of CPSC 100-4 (Computer Program I) and CPSC 101-4 (Computer Programming II) as electives.

CPSC 200-3*	Data Structures and Algorithm Analysis
CPSC 300-3*	Software Engineering I
CPSC 301-3*	Software Engineering II
CPSC 311-3	Computer Applications Programming
MATH 201-3	Analysis I
MATH 220-3	Linear Algebra
MATH 330-3*	Numerical Analysis I
MATH 332-3*	Differential Equations
MATH 430-3*	Applied Mathematics I
MATH 431-3*	Applied Mathematics II
MATH 440-3*	Advanced Probability and Statistics
PHYS 200-3*	Thermal Physics
PHYS 300-3*	Classical Mechanics
PHYS 303-3*	Advanced Physics Laboratory
PHYS 409-3	Mathematical Methods in Physics
PHYS 412-3	Physics of Medical Imaging
PHYS 415-3	Physics of the Environment
PHYS 416-3	Physical Techniques in Environmental Science
GEOG 413-3*	Advanced GIS

Elective Requirement

Thirteen to 15 credit hours in any subject at any level to ensure completion of a minimum of 126 credit hours.

• Major in Environmental Planning

Accredited by the Canadian Institute of Planners and the Planning Institute of BC.

The Bachelor of Science Major in Environmental Planning consists of a body of required courses (99 credit hours) and three professional themes. The required courses form the basis of the degree, while the professional theme areas define courses to strengthen the student's applied background in a particular area of planning. A student is expected to choose one theme area from which 15 credit hours will be taken.

There are three professional theme areas within Environmental Planning:

Environmental Resource Planning,
Northern Rural and Community Planning, and
Self-directed Theme in Planning

Each of these theme areas focuses on a different area of professional expertise. Within the theme areas, 15 credit hours are required, of which 12 credits must be taken from upper division courses. The Undergraduate Thesis (ENVS 420-1 and ENVS 430-3) may also be incorporated as a course within the 15 credit hours required in each theme.

Degree requirements: 99 credit hours
Professional theme credits: 15 credit hours
Elective credits: 8 credit hours

The minimum requirement for a Bachelor of Science with a major in Environmental Planning is 122 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Sciences
- OR**
- CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

BIOL 101-4 Introduction to Biology I
BIOL 102-4 Introduction to Biology II

CHEM 100-3 General Chemistry I
CHEM 101-3 General Chemistry II
ECON 100-3 Microeconomics
ENVS 100-3 Environments and People
or GEOG 100-3 Environments and People
ENVS 104-3 Introduction to Planning
MATH 152-3 Calculus for Non-majors
PHYS 100-4 Introduction to Physics I
POLS 100-3 Contemporary Political Issues

Note: CPSC 150-3 (Computer Applications) is recommended for students without computing experience.

200 Level

BIOL 201-3 Ecology
ENVS 203-3 Environmental Policy
ENVS 204-3 Principles and Practices of Planning
ENVS 205-3 Environment and Society
GEOG 205-3 Spatial Data Techniques
GEOG 210-3 Geomorphology
MATH 242-3 Statistics for Social and Health Sciences
or ECON 205-3 Statistics for the Social and
Management Sciences
POLS 200-3 Canadian Government and Politics

Upper Division Requirement

300 Level

ENVS 301-3 Sustainable Communities: Structure and
Sociology
ENVS 305-3 Environmental Impact Assessment
ENVS 308-3 Northern Environments
ENVS 318-3 Professional Planning Practice
GEOG 300-3 Geographical Information Systems

400 Level

ENVS 401-3 Environmental Law
ENVS 411-3 Planning Theory, Process and
Implementation
ENVS 413-3 Environmental Planning
ENVS 414-3 Environmental and Professional Ethics
ENVS 415-3 Rural Planning and Design
ENVS 416-3 Ecological Economics
ENVS 418-3 Environmental Measurement and Analysis
or ENVS 419-3 Social Research Methods

Professional Themes

Each of the theme areas will focus on a planning specialization. By the end of the student's third year at the latest, students with the approval of their advisor, must select one of three Professional Themes. A total of 15 credit hours must be selected from ONE theme area. Twelve of the 15 credits must be at the 300 or 400 level. Students will be strongly encouraged to pursue opportunities for experiential education through co-operative education placements (NRES 301, 302, 303, and 304) or internships (ENVS 440-(2-6)).

Important: Courses with an asterisk have prerequisites not indicated in the major requirements; it is the students' responsibility to ensure that they have the required prerequisites.

1. Environmental Resource Planning

This theme focuses on integrated planning for the sustainable use and preservation of the natural environment. It is based upon ecological values, limits and opportunities, and incorporates forest, public lands, fisheries and wildlife, energy, waste, water and airshed planning. This theme area ensures that planning is based upon a sound understanding of ecosystems and the natural resource base on which human communities depend. The theme provides an understanding of scientific analysis and the scientific background necessary in planning decisions. Environmental Resource Planning requires an understanding of complex and interdependent resource systems as well as quantitative and qualitative methods to evaluate those systems. Suggested courses therefore focus on modelling, quantitative analysis, environmental assessment, natural systems, and planning processes.

Course Choices

BIOL 302-3	Limnology
*BIOL 307-3	Ichthyology and Herpetology
*BIOL 308-3	Ornithology and Mammalogy
BIOL 350-3	Ethnobotany
ECON 330-3	Resource Economics
ENVS 201-3	Introduction to Atmospheric Science
ENVS 202-3	Introduction to Aquatic Systems
ENVS 302-3	Energy Development
*ENVS 307-3	Physical Ecology
ENVS 312-3	Boundary-layer Meteorology
ENVS 402-3	Terrain Assessment
ENVS 405-3	Advanced Environmental Assessment
*ENVS 406-3	Ecological Modelling
ENVS 410-3	Land Use Planning
*ENVS 412-3	Air Pollution
*GEOG 310-3	Hydrology
GEOG 411-3	Geomorphology of Northern BC
*HIST 459-3	Topics in the History of Resource Development
NREM 400-4	Natural Resources Planning
NREM 410-3	Watershed Management
PHYS 215-3	Energy, Physics and the Environment
*RRT 310-4	Resource Valuation
*RRT 406-3	Parks Planning and Management

Energy Specialization

Commencing September, 1999 an energy specialization is offered at the UNBC Fort St. John campus. This specialization deals with energy and energy alternatives including oil and gas exploration, production, transportation, and site remediation within the context of energy planning. For further information, contact the Chair of Environmental Studies in Prince George or staff at the Fort St. John campus.

2. Northern Rural and Community Planning

The focus of this theme is to promote an understanding of the complexity and diversity of environmental problems, develop an appreciation of community change processes, and provide planners with knowledge which will improve the quality of the built environment and reduce the impact of human activities on the natural world. The unique planning requirements of smaller communities and rural regions demand a grounding in both physical and social science methods and an understanding of the relationship between northern communities and surrounding rural resource regions. Environmental planning necessitates strategic thought and action combined with knowledge grounded in professional practice. The northern rural and community planning theme combines concepts such as bioregionalism, sustainability, and landscape design within the context of physical land use planning, social planning, and community economic development.

*COMM 302-3	Entrepreneurship
*ECON 304-3	Transportation Economics
ECON 305-3	Environmental Economics
ENVS 309-3	Women and Environmental Studies
ENVS 402-3	Terrain Assessment
ENVS 410-3	Land Use Planning
FNST 304-3	First Nations Environmental Philosophy and Knowledge
GEOG 301-3	Cultural Geography
GEOG 401-3	Resource Geography
GEOG 402-3	Geography of the Circumpolar North
GEOG 403-3	Aboriginal Geography
*GEOG 424-3	Social Geography of Northern Communities
NREM 210-4	Integrated Resource Management
NREM 303-3	First Nations' Approaches to Resource Management
POLS 302-3	Canadian Public Administration
POLS 316-3	Community Government and Politics
POLS 415-3	Comparative Northern Development
*RRT 404-3	Recreation Enterprises and Ecotourism Development
*RRT 406-3	Parks Planning and Management

3. Self-directed Theme in Planning

This theme is to be designed in consultation with, and must be approved by, the student's advisor and Program Chair by the end of the student's third year, at the latest. This theme provides an opportunity for students to pursue emerging themes, issues and ideas in planning.

Elective Requirement

Eight credit hours in any subject at any level to ensure completion of a minimum of 122 credit hours.

• Minor in Environmental Studies

The minor in Environmental Studies offers an opportunity for students in other disciplines to gain knowledge of social systems and policy as they affect environmental and natural resources issues. A maximum of two courses (six credits hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Environmental Studies.

The minor in Environmental Studies requires the completion of 18 credit hours, 12 of which must be at the upper division level.

Required

ENVS 205-3	Environment and Society
ENVS 414-3	Environmental and Professional Ethics
ENVS 100-3	Environments and People
or GEOG 100-3	Environments and People

Three of:

ENVS 301-3	Sustainable Communities: Structure and Sociology
ENVS 306-3	Human Ecology
ENVS 308-3	Northern Environments
ENVS 309-3	Women and Environmental Studies
ENVS 401-3	Environmental Law
NREM 303-3	First Nations' Approaches to Resource Management
NREM 306-3	Society, Policy and Administration
FNST 304-3	First Nations Environmental Philosophy and Knowledge
GEOG 401-3	Resource Geography
POLS 401-3	Resource Politics

• Minor in Environmental Science

The minor in Environmental Science offers an introduction to four environmental systems: aquatic, atmospheric, ecological, and terrestrial, with the ability to develop more depth in one or two systems. Students in this minor will gain an exposure to fundamental biological, chemical and physical aspects integral to the field of environmental science.

The minor in Environmental Science requires the completion, from the courses listed below, of 18 credit hours, 12 of which must be at the upper division level. A maximum of two courses (six credits hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Environmental Science.

Students must select at least one course from each of the following categories (important: all courses listed for the minor have prerequisites; it is the student's responsibility to ensure that they have the required prerequisites):

Aquatic Systems

BIOL 302-3	Limnology
BIOL 402-3	Aquatic Plants
BIOL 406-3	Fish Ecology
ENVS 202-3	Introduction to Aquatic Systems
ENVS 307-3	Physical Ecology
GEOG 310-3	Hydrology

Atmospheric Systems

ENVS 201-3	Introduction to Atmospheric Science
ENVS 312-3	Boundary-layer Meteorology
ENVS 408-3	Macro-meteorology
ENVS 412-3	Air Pollution

Ecological Systems

BIOL 201-3	Ecology
BIOL 410-3	Population and Community Ecology
ENVS 307-3	Physical Ecology
ENVS 308-3	Northern Environments
ENVS 406-3	Ecological Modelling

Terrestrial Systems

ENVS 402-3	Terrain Assessment
FSTY 205-3	Forest Soils
FSTY 455-3	Biogeochemical Processes in Soil Systems
GEOG 210-3	Geomorphology
GEOG 311-3	Advanced Geomorphology (formerly GEOG 410-3)
GEOG 405-3	Fluvial Geomorphology
GEOG 411-3	Geomorphology of Northern BC
GEOG 412-3	Geomorphology of Cold Regions

• Minor in Environmental Planning

The minor in Environmental Planning is designed to provide students an opportunity to acquire a basic knowledge of environmental planning theory and methods. The minor consists of 12 required credits (four designated courses) and six credits from a set of elective courses. A maximum of two courses (six credits hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Environmental Planning.

The Minor in Environmental Planning requires the completion of 18 credit hours, 12 of which must be at the upper division level.

Required

ENVS 104-3	Introduction to Planning
ENVS 204-3	Principles and Practices of Planning
ENVS 301-3	Sustainable Communities: Structure and Sociology
ENVS 411-3	Planning Theory, Process and Implementation

Two of:

ENVS 305-3	Environmental Impact Assessment
ENVS 405-3	Advanced Environmental Assessment
ENVS 410-3	Land Use Planning
ENVS 413-3	Environmental Planning
ENVS 414-3	Environmental and Professional Ethics
ENVS 415-3	Rural Planning and Design
ENVS 416-3	Ecological Economics

■ Finance

Students at UNBC may complete a Finance major in Business Administration (*see page 36*).

■ First Nations Studies (BA Program)

First Nations Studies takes the points of view of First Nations people and communities as the starting point for description and analysis, and contextualizes issues from this perspective. Courses in First Nations Studies will re-orient students to question the underlying assumptions of everyday understandings, and will develop clarity in thought and presentation critical to advanced study.

First Nations Studies is a valuable part of any good undergraduate education in the contemporary world; it is an appropriate undergraduate major for students aspiring to careers in education, business, public administration, law, communications, cultural property management, social services, health care delivery and administration, and many other fields. With an undergraduate major in First Nations Studies students may apply for admission to graduate programs in several academic disciplines, and to many professional programs. Students intending to apply for graduate or professional programs should ensure that their programs include all required prerequisites.

• Major in First Nations Studies

A major in First Nations Studies requires students to take 48 credit hours of First Nations Studies, at least 21 credit hours of which must be upper division courses. Those courses from the offerings of other programs with content focused on First Nations are designated as *Approved ancillary*

courses for a major in First Nations Studies, and may be included among the 48 credit hours required for a major [for example HIST 400-3 (Aboriginal People in Canada)]. Students may not take more than 60 credit hours of First Nations Studies without written permission from the Chair of the First Nations Studies program. After the 100 level courses taken by all students majoring in First Nations Studies, the program requires only two other mandatory three-credit courses [FNST 200-3 (Methods and Perspectives in First Nations Studies) and FNST 305-3 (Seminar in First Nations Studies)], permitting each student to design a program emphasizing various aspects of First Nations Studies such as contemporary political issues, languages and cultures, etc.

The minimum requirement for completion of a Bachelor of Arts with a major in First Nations Studies is 120 credit hours.

Core Requirement

Students completing a Bachelor of Arts must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences
- OR
• CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 and 200 Level

FNST 100-3	The Aboriginal Peoples of Canada
FNST 200-3	Methods and Perspectives in First Nations Studies

Any one of the following culture or language courses:

FNST 131-3	A First Nations Language: Level 1
FNST 132-3	A First Nations Language: Level 2
FNST 133-3	Carrier Language: Level 1
FNST 134-3	Carrier Language: Level 2
FNST 135-3	Haisla Language (X̱a'islaḱ'ala): Level 1
FNST 136-3	Haisla Language (X̱a'islaḱ'ala): Level 2
FNST 137-3	Tsimshian Language (Sm'algyax): Level 1
FNST 138-3	Tsimshian Language (Sm'algyax): Level 2
FNST 139-3	Nisga'a Language: Level 1
FNST 140-3	Nisga'a Language: Level 2

FNST 161-3	A First Nations Culture: Level 1
FNST 162-3	A First Nations Culture: Level 2
FNST 163-3	Carrier Culture: Level 1
FNST 164-3	Carrier Culture: Level 2
FNST 167-3	Tsimshian Culture: Level 1
FNST 168-3	Tsimshian Culture: Level 2
FNST 169-3	Nisga'a Culture: Level 1
FNST 170-3	Nisga'a Culture: Level 2
FNST 1713	Métis Studies: Level 1
FNST 172-3	Métis Studies: Level 2

NREM 303-3	First Nations' Approaches to Resource Management
NURS 205-3	Introduction to First Nations Health
NURS 422-3	First Nations Health and Nursing
NURS 423-6	First Nations Health and Nursing Practicum
NURS 498-3	The Health of First Nations People
POLS 220-3	Canadian Law and Aboriginal Peoples
POLS 311-3	Russian Politics and Society
POLS 340-3	First Nations Self-Government and Administration
POLS 412-3	Comparative Aboriginal State Relations
SOCW 301-3	Critical Social Work Practice
SOCW 430-3	Social Work and Profiling Communities
SOCW 434-3	First Nations/Human Services
WMST 310-3	Indigenous Women: Perspectives
WMST 402-3	Political Economy and First Nations Women

Upper Division Requirement

300 Level

FNST 305-3 Seminar in First Nations Studies

Eighteen credit hours of 300 or 400 level First Nations Studies courses or approved ancillary courses for the major in First Nations Studies.

Subject Requirement

Eighteen credit hours of First Nations Studies or approved ancillary courses at any level.

Elective Requirement

Nine credit hours of upper division electives (to meet UNBC residency requirement).

Fifty-seven credit hours in any subject at any level to ensure completion of a minimum of 120 credit hours.

Approved Ancillary Courses for a Major in First Nations Studies

This list is reviewed annually by the First Nations Studies program. Approved ancillary courses are those courses from other disciplines with content focused on First Nations. The following courses are included, and may be counted towards the required courses for a major in First Nations Studies.

ANTH 202-3	Archaeology in Northern British Columbia
ANTH 204-3	Ethnolinguistics and Ethnoscience in Northern British Columbia
ANTH 206-3	Ethnography in Northern British Columbia
ANTH 404-3	Comparative Study of Indigenous Peoples of the World
ANTH 407-3	Topics in British Columbia Ethnography
ANTH 409-3	Topics in British Columbia Archaeology
BIOL 350-3	Ethnobotany
ENGL 320-3	First Nations Literature
ENGL 420-3	First Nations Literature
GEOG 403-3	Aboriginal Geography
HIST 110-3	Indigena
HIST 400-3	Aboriginal People in Canada
HIST 406-3	British Columbia
HIST 420-3	Aboriginal People in the United States
HIST 456-3	Comparative Cultural Encounters

• Minor in First Nations Studies

The minor in First Nations Studies allows students to learn about the field, and to combine a minor concentration in FNST with a major concentration in another area. Students wishing to develop a particular focus could select a set of courses, for example: on aboriginal issues; aboriginal languages; and/or aboriginal cultures (Nisga'a, Métis or Carrier). Other combinations are possible with the guidance of the undergraduate advisor.

A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in First Nations Studies.

The minor requires completion of 18 credit hours (six courses):

FNST 100-3 The Aboriginal Peoples of Canada

Three credit hours of First Nations Studies at any level.

Twelve credit hours of 300 or 400 level First Nations Studies.

Students wishing to minor in FNST will select their courses in consultation with the FNST undergraduate student advisor. Courses from the ancillary list may be counted for the minor with approval from the FNST undergraduate student advisor.

■ Forestry

The Bachelor of Science in Natural Resources Management has a major in Forestry. The Forestry major has been designed to meet accreditation requirements of the Canadian Institute of Forestry and the educational requirements for certification by the Association of British Columbia Professional Foresters (*see page 63*).

■ General Business

Students at UNBC may complete a General Business major in Business Administration (*see page 36*).

■ Geography (BA and BSc Programs)

The Geography program offers both a Bachelor of Science and a Bachelor of Arts in Geography. The programs place strong emphasis on the geography of the North in general, the Pacific Northwest and the importance of contemporary geographic technologies. The Bachelor of Science program emphasizes physical geography (geomorphology and watershed processes) while the Bachelor of Arts provides an exposure to a range of courses in human geography.

Students entering a Geography program should be comfortable with the use of a computer for word processing. Introductory computer courses are available at UNBC.

BA program

• Major in Geography

The Bachelor of Arts emphasizes human and cultural geography. Strong emphasis is placed on the geography of the North in general and of the Pacific Northwest in particular.

Undergraduate students are required to take 17 Geography courses (51 credit hours). Of these courses, 10 must be upper division. The total electives for the major include 36 credit hours of which 18 must be upper division courses.

The minimum requirement for the completion of a Bachelor of Arts with a major in Geography is 120 credit hours.

Core Requirement

Students completing a Bachelor of Arts must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
- CORE 104-3 Life Sciences or
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

- GEOG 100-3 Environments and People
- ECON 100-3 Microeconomics
or ECON 101-3 Macroeconomics
- POLS 100-3 Contemporary Political Issues
- HIST 100-3 Headlines in History
or HIST 110-3 Indigena
or HIST 211-3 Canada Since Confederation
or HIST 255-3 The Circumpolar World
- WMST 100-3 Introduction to Women's Studies
or WMST 101-3 Status of Women
or WMST 102-3 Women's Movements
or WMST 202-3 Women's Work

200 Level

- ENVS 201-3 Introduction to Atmospheric Science
- GEOG 200-3 Geography of BC
- GEOG 201-3 Human Geography
- GEOG 202-3 Economic Geography
- GEOG 203-3 Geography of Canada
- GEOG 205-3 Spatial Data Techniques
- GEOG 210-3 Geomorphology
- MATH 242-3 Statistics for Social and Health Sciences
or ECON 205-3 Statistics for Social and Management Sciences

Upper Division Requirement

300 Level

- ENVS 301-3 Sustainable Communities: Structure and Sociology
- GEOG 300-3 Geographical Information Systems
- GEOG 301-3 Cultural Geography
- GEOG 304-3 Social Geography
- GEOG 305-3 Political Geography

Two of:

- GEOG 302-3 Geography of Russia
- GEOG 303-3 Recreational Geography
- GEOG 306-3 Geography of International Development
- GEOG 307-3 Historical Geography of Canada

400 Level

- ENVS 414-3 Environmental and Professional Ethics
or COMM 332-3 Business and Professional Ethics
or POLS 317-3 Politics and Ethics
- GEOG 403-3 Aboriginal Geography
- ENVS 419-3 Social Research Methods

Three of:

- GEOG 401-3 Resource Geography
- GEOG 402-3 Geography of the Circumpolar North
- GEOG 413-3 Advanced GIS
or GEOG 432-3 Remote Sensing
- GEOG 422-3 Geography of World Trade
- GEOG 424-3 Social Geography of Northern Communities
- GEOG 498-(1-3) Special Topics
or GEOG 499-(3-6) Independent Studies

Elective Requirement

Eighteen credit hours in any subject at the 300 or 400 level.
Eighteen additional credit hours in any subject at any level to ensure completion of a minimum of 120 credit hours.

BSc Program

• Major in Geography

Undergraduate students are required to take 12 Geography courses (36 credit hours). Of these courses, eight must be upper division. The total electives for the major are 36 credit hours. Students are required to take a minimum of 21 credit hours of electives from Science courses, of which 15 credit hours must be upper division.

The minimum requirement for completion of a Bachelor of Science with a major in Geography is 124 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Sciences
- OR**
- CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

- BIOL 101-4 Introductory Biology I
- BIOL 102-4 Introductory Biology II
- CHEM 100-3 General Chemistry I
- CHEM 101-3 General Chemistry II
- CHEM 120-0.5 General Chemistry Lab I

- CHEM 121-0.5 General Chemistry Lab II
- MATH 152-3 Calculus for Non-major
- PHYS 100-4 Introduction to Physics I

200 Level

- BIOL 201-3 Ecology
- ENVS 201-3 Introduction to Atmospheric Science
- FSTY 205-3 Forest Soils
- GEOG 200-3 Geography of BC
- GEOG 201-3 Human Geography
or GEOG 202-3 Economic Geography
- GEOG 205-3 Spatial Data Techniques
- GEOG 210-3 Geomorphology

Upper Division Requirement

300 Level

- GEOG 310-3 Hydrology
- GEOG 311-3 Advanced Geomorphology (formerly GEOG 410-3)
- GEOG 300-3 Geographical Information Systems
- MATH 342-3 Biostatistics

Two of:

- ENVS 312-3 Boundary-layer Meteorology
- BIOL 301-3 Systematic Botany
- FSTY 425-3 Soil Formation and Classification

One of:

- GEOG 301-3 Cultural Geography
- GEOG 302-3 Geography of Russia
- GEOG 303-3 Recreational Geography
- GEOG 304-3 Social Geography
- GEOG 305-3 Political Geography
- GEOG 306-3 Geography of International Development
- GEOG 307-3 Historical Geography of Canada

400 Level

- GEOG 402-3 Geography of the Circumpolar North
or GEOG 403-3 Aboriginal Geography
- NREM 411-3 Environmental and Professional Ethics

Four of:

- GEOG 405-3 Fluvial Geomorphology
- GEOG 411-3 Geomorphology of Northern BC
- GEOG 412-3 Geomorphology of Cold Regions
- GEOG 413-3 Advanced GIS
or GEOG 432-3 Remote Sensing
- GEOG 414-3 Weathering Processes

Elective Requirement

Science Electives

Six credit hours of Science electives at any level.
Fifteen credit hours of Science electives at the 300 or 400 level.

General Electives

Fifteen credit hours of electives in any subject at any level to ensure completion of a minimum of 124 credit hours.

• Minor in Geomorphology

The aim of the minor is to show a level of competence in a theme, field or program direction that a student feels would be beneficial to her/his career and which would be ancillary to the major. The minors offered are those where there is a group of courses which, when taken together, provide a degree of proficiency in that field. By designating this group of courses as a minor the student is able to demonstrate a level of proficiency in that field.

This minor is appropriate to those who wish to attain a degree of specialization in geomorphology.

A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Geography.

The minimum requirement for the completion of the minor in Geomorphology is 18 credit hours.

Requirements

GEOG 210-3 Geomorphology
GEOG 311-3 Advanced Geomorphology (formerly
GEOG 410-3)

Four of:

GEOG 310-3 Hydrology
GEOG 405-3 Fluvial Geomorphology
GEOG 411-3 Geomorphology of Northern BC
GEOG 412-3 Geomorphology of Cold Regions
GEOG 300-3 Geographical Information Systems
or GEOG 413-3 Advanced GIS
or GEOG 432-3 Remote Sensing
GEOG 414-3 Weathering Processes
FSTY 205-3 Forest Soils
or FSTY 425-3 Soil Formation and
Classification

• Minor in Physical Geography

The aim of the minor is to show a level of competence in a theme, field or program direction that a student feels would be beneficial to her/his career and which would be ancillary to the major. The minors offered are those where there is a group of courses which, when taken together, provide a degree of proficiency in that field. By designating this group of courses as a minor the student is able to demonstrate a level of proficiency in that field.

This minor may be appropriate for someone who needs a broader background than in the geomorphology minor, such as for prospective teachers.

A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Geography.

The minimum requirement for the completion of the minor in Physical Geography is 18 credit hours.

Requirements

GEOG 210-3 Geomorphology
FSTY 205-3 Forest Soils
ENVS 201-3 Introduction to Atmospheric Science

Three of*:

ENVS 312-3 Boundary-layer Meteorology
or ENVS 408-3 Macro-meteorology
GEOG 310-3 Hydrology
or GEOG 405-3 Fluvial Geomorphology
GEOG 311-3 Advanced Geomorphology (formerly
GEOG 410-3)
GEOG 411-3 Geomorphology of Northern BC
GEOG 412-3 Geomorphology of Cold Regions
GEOG 300-3 Geographical Information Systems
or GEOG 413-3 Advanced GIS
or GEOG 432-3 Remote Sensing
GEOG 414-3 Weathering Processes

*Note: Courses used to fulfill requirements for a major or another minor may not be used to fulfill this requirement. Where students have the three required courses included in their major, they shall take four of the alternatives from the above list.

• Minor in Human Geography

The aim of the minor is to show a level of competence in a theme, field or program direction that a student feels would be beneficial to her/his career and which would be ancillary to the major. The minors offered are those where there is a group of courses which, when taken together, provide a degree of proficiency in that field. By designating this group of courses as a minor the student is able to demonstrate a level of proficiency in that field.

The minor in Human Geography is designed to provide the student with: 1) an introduction to the basics of Human Geography; 2) a well-rounded introduction to several of the key sub-fields of Human Geography; 3) an exposure to the regional geography approach; and 4) the chance to explore one facet of Human Geography of special interest to the student at the 400 level.

A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Geography.

The minimum requirement for completion of a minor in Human Geography is 21 credit hours, including minimum of nine upper division credit hours.

Requirements

GEOG 100-3 Environments and People
 GEOG 201-3 Human Geography

Three of:

GEOG 202-3 Economic Geography
 GEOG 301-3 Cultural Geography
 GEOG 304-3 Social Geography
 GEOG 305-3 Political Geography

One of:

GEOG 200-3 Geography of BC
 GEOG 203-3 Geography of Canada
 GEOG 302-3 Geography of Russia

One of:

GEOG 402-3 Geography of the Circumpolar North
 GEOG 403-3 Aboriginal Geography
 GEOG 422-3 Geography of World Trade
 GEOG 424-3 Social Geography of Northern Communities

■ History (BA Program)

Historians study what people have thought, said, and done in the past. By description, examination, and analysis they attempt to explain the past in order to understand the present. The study of history contributes to critical thinking, helps to develop intellectual maturity, and assists students to present ideas clearly and accurately.

The study of history, as well as being valuable in itself, can lead to a career in business, government service, teaching, law, journalism, archival and museum work.

• Major in History

A degree in History requires students to take 16 History courses (48 credit hours), at least 24 credit hours of which must be upper division courses. Students may not take more than 54 credit hours of History without written permission from the Chair of the History program.

The minimum requirement for completion of a Bachelor of Arts with a major in History is 120 credit hours.

Core Requirement

Students completing a Bachelor of Arts must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
 CORE 104-3 Life Sciences
- OR**
- CORE 102-3 Physical Sciences or
 CORE 104-3 Life Sciences and

three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 and 200 Level

HIST 100-3 Headlines in History
 HIST 200-3 Historical Methodology: An Introduction to the Work of the Historian

Nine credit hours of History at the 100 or 200 level.

Upper Division Requirement

300 and 400 Level

HIST 300-3 Historiography: The Nature of the Historical Discipline

Nine credit hours of History at the 300 or 400 level.

Twelve credit hours of History at the 400 level.

Subject Requirement

Nine additional credit hours of History at any level to ensure completion of 48 credit hours of History in total.

Elective Requirement

Six credit hours of upper division electives (to meet UNBC residency requirement).

Sixty credit hours of electives at any level and in any subject to ensure completion of a minimum of 120 credit hours.

• Minor in History

The minor in History provides students with an understanding of how to evaluate historical sources and historical writings and with specialized knowledge of historical processes in fields of the student's choosing.

The minor in History requires students to take at least 18 credit hours, of which at least 12 must be upper division credits.

A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in History.

Requirements

HIST 100-3 Headlines in History
 HIST 200-3 Historical Methodology: An Introduction to the Work of the Historian
 HIST 300-3 Historiography: The Nature of the Historical Discipline

Nine credit hours of 300 or 400 level History courses.

• BA Honours – History

The BA Honours – History provides a higher level of training and specialization for students planning to proceed to postgraduate work or professional schools. The program of study is offered to students majoring in history who have completed their first two years (60 credit hours).

In order to enter the honours degree program, students must have completed HIST 100-3 (Headlines in History) and HIST 200-3 (Historical Methodology: An Introduction to the Work of the Historian), five additional lower level university or college history courses, and attained a cumulative GPA of not less than 3.33 upon completion of second year (i.e. 60 credit hours).

Students taking the honours BA will fulfil all the requirements of the History BA program, as well as four additional courses designed for honours students for a total of 132 credit hours:

HIST 500-3	Historiography: Contemporary Theories and Methods
HIST 501-3	Honours Directed Readings
HIST 502-3	Honours Thesis I
HIST 503-3	Honours Thesis II

A GPA of not less than 3.33 must be maintained while in the honours program.

■ International Business

Students at UNBC may complete an International Business major in Business Administration (*see page 36*).

■ International Studies (BA Program)

The International Studies program seeks to familiarize students with the global community in which they live and to prepare them to pursue careers involving international interactions. Participants are provided with a variety of opportunities to explore issues from economic, political, social, cultural and environmental perspectives. Foreign language training and study abroad experiences are incorporated into the program and special attention is given to British Columbia's immediate international neighbours: the Pacific Rim countries, the nations of the Circumpolar North, and the United States.

• Major in International Studies

Undergraduate students are required to complete 20 International Studies courses (60 credit hours) as part of their overall program in order to graduate with a major in

International Studies. Four of these courses (12 credit hours) are foreign language courses and thirteen (39 credit hours) are at the upper division (300/400) level.

The minimum requirement for completion of a Bachelor of Arts with a major in International Studies is 120 credit hours.

Core Requirement

Students completing a Bachelor of Arts must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences
- **OR**
CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 and 200 Level

- COMM 100-3 Introduction to Canadian Business
- ECON 100-3 Microeconomics
- ECON 101-3 Macroeconomics
or ECON 202-3 History of Economic Thought
or POLS 202-3 Comparative Government and Politics
- ECON 205-3 Statistics for the Social and Management Sciences
or MATH 242-3 Statistics for Social and Health Sciences
- INTS 200-3 Contemporary Russia
or INTS 201-3 Contemporary Scandinavia
or INTS 202-3 Contemporary United States
or INTS 203-3 Contemporary Japan
or INTS 204-3 Contemporary China
or INTS 258-3 Contemporary Australia and New Zealand
- INTS 101-3 Canada and the World
or INTS 206-3 Contemporary International Issues
- INTS 205-3 Introduction to International Studies
- POLS 200-3 Canadian Government and Politics

Language Requirement

Students majoring in International Studies must complete four language courses. The normal pattern is to take one of the following sequences.

Chinese (Mandarin)

INTS 161-3 Beginning Chinese I
 INTS 162-3 Beginning Chinese II
 INTS 261-3 Intermediate Chinese I
 INTS 262-3 Intermediate Chinese II
 or

Japanese

INTS 121-3 Beginning Japanese I
 INTS 122-3 Beginning Japanese II
 INTS 221-3 Intermediate Japanese I
 INTS 222-3 Intermediate Japanese II
 or

Russian

INTS 131-3 Beginning Russian I
 INTS 132-3 Beginning Russian II
 INTS 231-3 Intermediate Russian I
 INTS 232-3 Intermediate Russian II
 or

Swedish

INTS 141-3 Beginning Swedish I
 INTS 142-3 Beginning Swedish II
 INTS 241-3 Intermediate Swedish I
 INTS 242-3 Intermediate Swedish II
 or

Other

INTS 151-3 Beginning International Language I
 INTS 152-3 Beginning International Language II
 INTS 251-3 Intermediate International Language I
 INTS 252-3 Intermediate International Language II

It is also possible to fulfill this requirement by taking courses in more than one language, as long as at least six credit hours are in one language. Students wishing to take advantage of this option must get approval from the Program's undergraduate advisor.

Credit for training in languages other than English or French at the university/college level will be considered and prior learning assessment is offered where possible. In all such cases, students must contact the Program Chair prior to registration.

Upper Division Requirement

300 and 400 Level

INTS 310-3 Origins and Evolution of International Studies

Thirty-six credit hours of additional 300 and 400 level International Studies courses.

Students should know that certain 300 and 400 level courses are offered only in alternate years.

Elective Requirement

Thirty-nine credit hours of electives at any level and in any subject to ensure completion of a minimum of 120 credit hours.

• Minor in International Studies

Eighteen credit hours, 12 of which must be upper division International Studies courses.

A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in International Studies.

One of:

INTS 101-3	Canada and the World
INTS 205-3	Introduction to International Studies
INTS 206-3	Contemporary International Issues

Three credit hours of International Studies at any level.

Twelve credit hours of 300 or 400 level International Studies.

Students should know that certain 300 and 400 level courses are offered only in alternate years.

Alternative courses may be substituted for the above with the written permission of the Program Chair and Dean of the College.

• BA Honours – International Studies

The BA Honours – International Studies provides a higher level of training and specialization for students, especially those planning to proceed to postgraduate work.

In order to enter the International Studies honours BA program, students must have taken INTS 205-3 (Introduction to International Studies), completed a total of 60 credit hours, and achieved an accumulated GPA of 3.33 or higher.

Students taking the honours BA will fulfill all the requirements of the International Studies BA program, plus the three courses listed below for a total of 132 credit hours:

INTS 409-3	Theories of International Studies
INTS 590-3	Honours Seminar
INTS 591-6	Honours Thesis

Students must maintain an accumulative GPA of 3.33 or higher while in the honours program.

• Joint Majors

Students interested in a Joint Major with Political Science should consult the Joint Major section on page 27.

■ Marketing

Students at UNBC may complete a Marketing major in Business Administration (*see page 36*).

■ Mathematics (BSc Program)

The program in Mathematics provides undergraduate instruction and training in pure mathematics, applied mathematics, and statistics. In addition, the program offers service courses to students in the biological sciences, health sciences, management, economics, and other areas. Many mathematics courses are taught using the computer in an essential way. For example, some sections of introductory calculus are taught using the Maple software, which provides exceptional computational power and high-quality graphical display. An important feature of the Mathematics program is the early emphasis on the development of abstract reasoning and the relation of the abstract to the concrete. The degree requirements have been chosen so as to provide students with a broad background in mathematics while still leaving them room to pursue individual interests.

• Major in Mathematics

A major in Mathematics requires 18 mathematics courses (54 credit hours), at least 30 credit hours of which must be upper division courses and of those upper division credits, at least 12 must be taken at the 400 level. No more than 60 credit hours of mathematics may be taken without approval of the Program Chair.

The minimum requirement for completion of a Bachelor of Science with a major in Mathematics is 120 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Sciences
- OR**
- CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Note that students enrolling in any Mathematics or Computer Science courses with prerequisites are required to have completed all prerequisite courses for that course with C- or better, or have permission to enrol from the Program Chair.

Lower Division Requirement

100 Level

CPSC 100-4 Computer Programming I
MATH 100-3 Calculus I
or MATH 105-3 Enriched Calculus
MATH 101-3 Calculus II

200 Level

MATH 200-3 Calculus III
MATH 201-3 Analysis I
MATH 220-3 Linear Algebra
MATH 221-3 Operations Research
MATH 222-3 Foundations of Modern Mathematics I
MATH 223-3 Foundations of Modern Mathematics II

Recommended

CPSC 101-4 Computer Programming II

General Science Requirement

Two of:

BIOL 101-4	Introductory Biology I
BIOL 102-4	Introductory Biology II
BIOL 201-3	Ecology
BIOL 203-3	Microbiology
CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
CHEM 200-3	Physical Chemistry I
CHEM 201-3	Organic Chemistry I
CHEM 202-3	Inorganic Chemistry I
CHEM 203-3	Organic Chemistry II
CHEM 204-3	Biochemistry I
PHYS 100-4	Introduction to Physics I
	or PHYS 110-4 Introductory Physics I: Mechanics
PHYS 111-4	Introductory Physics II: Waves and Electricity
PHYS 200-3	Thermal Physics
PHYS 202-4	Electromagnetism and Optics
PHYS 205-3	Modern Physics I
PHYS 206-4	Modern Physics II

Note: PHYS 110-4 (Introductory Physics I: Mechanics) and PHYS 111-4 (Introductory Physics II: Waves and Electricity) are strongly recommended for all majors.

Upper Division Requirement

300 Level

MATH 320-3 Survey of Algebra
 MATH 321-3 Topology
 or MATH 330-3 Numerical Analysis I
 MATH 332-3 Differential Equations
 MATH 340-3 Introduction to Probability
 Six credit hours of 300 or 400 level Mathematics.

400 Level

Twelve credit hours of 400 level of Mathematics courses.

Alternate courses may be substituted for the above with the written permission of the Program Chair and Dean of the College.

Elective Requirement

Forty-eight to 50 credit hours of electives at any level and in any subject to ensure completion of a minimum of 120 credit hours.

• Joint Majors

Students interested in Joint Majors with chemistry, computer science, or physics should consult the Joint Major section on page 27.

• Minor in Mathematics

The minor in Mathematics requires students to take 24 credit hours, 12 of which must be upper division credits.

There is no limit to the number of courses that may be used to fulfill program requirements for a major (or another minor) and also a minor in Mathematics.

Requirements

100 Level

MATH 100-3 Calculus I
 MATH 101-3 Calculus II

200 Level

MATH 200-3 Calculus III
 MATH 220-3 Linear Algebra

• Minor in Applied Mathematics

The minor in Applied Mathematics will serve to complement the studies of a student working in a major field where more sophisticated quantitative methods are required. Completion of such a minor should enhance a student's appreciation of

the power of the interdisciplinary approach and of the importance of modern mathematical techniques in a great variety of disciplines.

The minor in Applied Mathematics requires students to complete at least nine courses (27 credit hours) in Mathematics.

There is no limit to the number of courses that may be used to fulfill program requirements for a major (or another minor) and also a minor in Applied Mathematics.

Requirements

MATH 100-3 Calculus I
 MATH 101-3 Calculus II
 MATH 200-3 Calculus III
 MATH 201-3 Analysis I
 MATH 220-3 Linear Algebra
 MATH 332-3 Differential Equations
 MATH 340-3 Introduction to Probability

In addition, at least two courses must be taken from the following:

MATH 330-3 Numerical Analysis I
 MATH 331-3 Numerical Analysis II
 MATH 341-3 Introduction to Statistics
 MATH 370-3 Geometry I
 MATH 430-3 Applied Mathematics I
 MATH 431-3 Applied Mathematics II
 MATH 440-3 Advanced Probability and Statistics
 MATH 470-3 Geometry II

■ Natural Resources Management (BSc Program)

The Natural Resources Management program offers students an integrated resource management approach with specialization through majors in Forestry, Wildlife and Fisheries, and Resource Recreation.

The recognition that management of any natural resource has implications for all other natural resources is a primary driving factor in the undergraduate curriculum for this degree program. Multiple and sustainable resource management is emphasized. The Forestry major is accredited by the Canadian Forestry Accreditation Board and meets certification requirements for the Association of BC Professional Foresters. In addition the Resource Recreation major is designed to meet the accreditation standards of the National Recreation and Parks Association.

Government, industry and private experts assist in course presentations. The University has two research forests available to students in this program.

• Major in Forestry

Undergraduate students are required to take 23 Forestry and Natural Resources Management courses (72 credit hours). Of these, 15 courses must be upper division. The total electives for the major are nine credit hours.

The minimum requirement for completion of a Bachelor of Science with a major in Forestry is 136 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Science
- OR**
- CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

NRES 100-3	Communications in Natural Resources and Environmental Studies
BIOL 101-4	Introductory Biology I
BIOL 102-4	Introductory Biology II
CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
CHEM 120-0.5	General Chemistry Lab I
CHEM 121-0.5	General Chemistry Lab II
CPSC 110-3	Introduction to Computer Systems and Programing
ECON 100-3	Microeconomics
MATH 152-3	Calculus for Non-majors
NREM 100-2	Natural Resources Management I
NREM 101-2	Natural Resources Management II
PHYS 100-4	Introduction to Physics I

200 Level

BIOL 201-3	Ecology
ENVS 201-3	Introduction to Atmospheric Science
FSTY 201-4	Plant Systems
FSTY 205-3	Forest Soils
FSTY 206-3	Forest Biology
FSTY 208-3	Silvics
GEOG 205-3	Spatial Data Techniques
GEOG 210-3	Geomorphology
NREM 203-3	Resource Inventories and Measurements
NREM 210-4	Integrated Resource Management

Upper Division Requirement

300 Level

ENVS 305-3	Environmental Impact Assessment
FSTY 302-3	Forest Harvesting Systems
FSTY 305-3	Silviculture I
FSTY 307-4	Forest Health
FSTY 309-3	Fire Ecology and Management
FSTY 310-4	Resource Valuation
FSTY 333-3	Field Camp
INTS 307-3	Global Resources
MATH 342-3	Biostatistics
NREM 303-3	First Nations' Approaches to Resource Management
NREM 306-3	Society, Policy and Administration

400 Level

FSTY 405-3	Silviculture II
FSTY 407-3	Forest Products
FSTY 408-3	Forest Practices and Management
NREM 400-4	Natural Resources Planning
NREM 410-3	Watershed Management
NREM 411-3	Environmental and Professional Ethics
NRES 420-3	Undergraduate Report
or NRES 430-6	Undergraduate Thesis

Elective Requirement

Three to six credit hours in any subject at any level to ensure completion of a minimum of 136 credit hours.

• Major in Wildlife and Fisheries

Undergraduate students are required to take 15 Biology courses (47 credit hours) and six Natural Resources Management courses (18 credit hours). Of these, 13 courses must be upper division.

The minimum requirement for completion of a Bachelor of Science with a major in Wildlife and Fisheries is 122 credit hours.

Requirements

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Sciences
- OR**
- CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

- NRES 100-3 Communications in Natural Resources and Environmental Studies
 or ENGL 170-3 Writing and Communication Skills
- BIOL 101-4 Introductory Biology I
 BIOL 102-4 Introductory Biology II
 CHEM 100-3 General Chemistry I
 CHEM 101-3 General Chemistry II
 CHEM 120-0.5 General Chemistry Lab I
 CHEM 121-0.5 General Chemistry Lab II
 MATH 152-3 Calculus for Non-majors
 NREM 100-2 Natural Resources Management I
 NREM 101-2 Natural Resources Management II

200 Level

- BIOL 201-3 Ecology
 BIOL 210-3 Genetics
 CHEM 220-3 Organic and Biochemistry
 GEOG 205-3 Spatial Data Techniques
 GEOG 210-3 Geomorphology
 NREM 204-3 Introduction to Wildlife and Fisheries
 NREM 210-4 Integrated Resource Management

One of:

- BIOL 202-3 Invertebrate Zoology
 BIOL 204-3 Plant Biology
 FSTY 206-3 Forest Biology

Upper Division Requirement

300 Level

- BIOL 301-3 Systematic Botany
 or FSTY 201-4 Plant Systems
- BIOL 302-3 Limnology
 BIOL 307-3 Ichthyology and Herpetology
 BIOL 308-3 Ornithology and Mammalogy
 BIOL 315-3 Animal Diseases and Parasites
 ENV5 305-3 Environmental Impact Assessment
 or NREM 411-3 Environmental and Professional Ethics
- MATH 342-3 Biostatistics
 NREM 303-3 First Nations' Approaches to Resource Management
 or NREM 306-3 Society, Policy and Administration

400 Level

- BIOL 402-3 Aquatic Plants
 or BIOL 404-3 Plant Ecology
- BIOL 406-3 Fish Ecology
 BIOL 410-3 Population and Community Ecology
 BIOL 411-3 Conservation Biology
 BIOL 412-3 Wildlife Ecology
 BIOL 413-3 Wildlife Management

- BIOL 414-3 Fisheries Management
 NREM 400-4 Natural Resources Planning
 or NREM 410-3 Watershed Management

Electives

Sixteen to 18 credit hours to ensure completion of a minimum of 122 credit hours.

• Major in Resource Recreation

British Columbia has wilderness areas, Regional, Provincial and National Parks, provincial forests, First Nations territories, lands and environments that support a vast array of dispersed and concentrated outdoor recreation opportunities. The program looks at the components of developing and/or maximizing recreation potential through scrutiny of subject areas such as management of recreation opportunities, marketing, facilities, interpretation and research.

Undergraduate students are required to take 13 Resource Recreation and Tourism courses (40 credit hours). Of these, 12 courses must be upper division.

The minimum requirement for the completion of a Bachelor of Science with a major in Resource Recreation is 132 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
 CORE 103-3 Social Sciences
- OR**
- CORE 101-3 Humanities or
 CORE 103-3 Social Sciences and
 three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

In order to meet the graduation requirements for Resource Recreation Management, students also must successfully complete the following courses:

Program Requirements

Lower Division Requirement

100 Level

- BIOL 101-4 Introductory Biology I
 BIOL 102-4 Introductory Biology II
 CHEM 100-3 General Chemistry I
 CHEM 101-3 General Chemistry II
 or PSYC 101-3 Psychology as a Science
 or PHYS 100-4 Introduction to Physics I

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ECON 100-3	Microeconomics
NREM 100-2	Natural Resources Management I
NREM 101-2	Natural Resources Management II

Students with little or no computer experience are strongly encouraged to take CPSC 150-3 (Computer Applications) or CPSC 110-3 (Introduction to Computer Systems and Programming).

200 Level

BIOL 201-3	Ecology
GEOG 205-3	Spatial Data Techniques
GEOG 210-3	Geomorphology
MATH 242-3	Statistics for Social and Health Sciences
or ECON 205-3	Statistics for the Social and Management Sciences
NREM 203-3	Resource Inventories and Measurements
NREM 210-4	Integrated Resource Management
RRT 201-3	Introduction to Resource Recreation Management

Upper Division Requirement

300 Level

ENVS 305-3	Environmental Impact Assessment
GEOG 303-3	Recreational Geography
NREM 303-3	First Nations' Approaches to Resource Management
NREM 306-3	Society, Policy and Administration
RRT 302-3	Wildland Recreation
RRT 304-3	Organization and Management of Recreation and Tourism
RRT 310-4	Resource Valuation
RRT 333-3	Field Camp

400 Level

NREM 400-4	Natural Resources Planning
NREM 410-3	Watershed Management
or GEOG 401-3	Resource Geography
NREM 411-3	Environmental and Professional Ethics
RRT 410-3	Research and Analysis in Recreation Tourism
RRT 412-3	Issues and Trends in Resource Recreation and Tourism

18 credit hours from:

RRT 203-3	Introduction to Resource-Based Tourism
RRT 301-3	Interpretive Techniques
RRT 303-3	Areas and Facilities Planning
RRT 401-3	Commercial Recreation and Tourism
RRT 402-3	Recreation for Special Needs
RRT 404-3	Recreation Enterprises and Ecotourism Development
RRT 406-3	Parks Planning and Management
RRT 408-3	Social and Behavioural Dimensions of Recreation and Tourism
RRT 413-3	Visitor Management

RRT 498-(1-3)	Special Topics
RRT 499-(1-6)	Independent Study

(See suggested RRT streams below)

Two of:

BIOL 301-3	Systematic Botany
or FSTY 201-4	Plant Systems
BIOL 307-3	Ichthyology and Herpetology
BIOL 308-3	Ornithology and Mammalogy
FSTY 205-3	Forest Soils
FSTY 206-3	Forest Biology
PSYC 301-3	Social Psychology
PSYC 307-3	Motivation and Emotion
PSYC 330-3	Cognition

Elective Requirement

Sixteen to 18 credit hours at any level and in any subject to ensure completion of a minimum of 132 credit hours.

Suggested RRT Streams

The following streams in the Resource Recreation major (BSc NRM) provide students with the opportunity to visualize potential course selections, develop course 'packages' and consider career options. Students are not required to follow these particular streams.

Park/Wildlands Management

RRT 301-3	Interpretive Techniques
RRT 303-3	Areas and Facilities Planning
RRT 402-3	Recreation for Special Needs
RRT 406-3	Parks Planning and Management
RRT 408-3	Social and Behavioural Dimensions of Recreation and Tourism
RRT 413-3	Visitor Management

Commercial Development

RRT 203-3	Introduction to Resource-Based Tourism
RRT 303-3	Areas and Facilities Planning
RRT 401-3	Commercial Recreation and Tourism
RRT 402-3	Recreation for Special Needs
RRT 404-3	Recreation Enterprises and Ecotourism Development
RRT 408-3	Social and Behavioural Dimensions of Recreation and Tourism

• Minor in Resource Recreation

The minor in Resource Recreation is designed to provide students an opportunity to acquire a basic knowledge of resource recreation management and delivery. The minor consists of nine required credits (three designated courses) and nine credits from a set of elective courses. The purpose of the minor option is to allow students to gain a set of pedagogical and experiential learning opportunities that are basic to the discipline of Resource Recreation.

A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Resource Recreation.

Requirements

RRT 201-3	Introduction to Resource Recreation Management
RRT 302-3	Wildland Recreation
RRT 404-3	Recreation Enterprises and Ecotourism Development

Electives

Three of:

RRT 301-3	Interpretive Techniques
RRT 303-3	Areas and Facilities Planning
RRT 310-4	Resource Valuation
RRT 402-3	Recreation for Special Needs
RRT 406-3	Parks Planning and Management
RRT 408-3	Social and Behavioural Dimensions of Recreation and Tourism

■ Northern Studies (BA Program)

• Major in Northern Studies

Northern Studies is an interdisciplinary field of particular importance to the University of Northern British Columbia.

Students are required to complete two methodology courses and 16 courses with northern content, 11 of these at the upper division level.

The minimum requirement for completion of a Bachelor of Arts with a major in Northern Studies is 120 credit hours.

Core Requirement

Students completing a Bachelor of Arts must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences

OR

- CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

NORS 101-3	Northern Environments
ANTH 101-3	Linguistic and Sociocultural Approaches
ECON 101-3	Macroeconomics
FNST 100-3	The Aboriginal Peoples of Canada
POLS 100-3	Contemporary Political Issues

200 Level

ANTH 208-3	Anthropology of the Circumpolar North
GEOG 200-3	Geography of BC
HIST 255-3	The Circumpolar World

One of:

ANTH 202-3	Archaeology in Northern British Columbia
ANTH 204-3	Ethnolinguistics and Ethnoscience in Northern British Columbia
ANTH 206-3	Ethnography in Northern British Columbia

Any one of the First Nations courses on a relevant northern First Nations culture, i.e.

FNST 161-3	A First Nations Culture: Level 1
FNST 162-3	A First Nations Culture: Level 2
FNST 163-3	Carrier Culture: Level 1
FNST 164-3	Carrier Culture: Level 2
FNST 167-3	Tsimshian Culture: Level 1
FNST 168-3	Tsimshian Culture: Level 2
FNST 169-3	Nisga'a Culture: Level 1
FNST 170-3	Nisga'a Culture: Level 2

Upper Division Requirement

300 and 400 Level

ECON 407-3	The Economy of Northern BC
HIST 301-3	The Canadian North
INST 410-3	Environment and Development in the Circumpolar North
POLS 415-3	Comparative Northern Development
GEOG 424-3	Social Geography of Northern Communities

One of:

GEOG 402-3	Geography of the Circumpolar North
INTS 340-3	The Circumpolar North in Global Perspective

One of:

GEOG 403-3	Aboriginal Geography
POLS 412-3	Comparative Aboriginal State Relations

Four of:

Note: A maximum of two courses from any one discipline may be selected.

UNDERGRADUATE PROGRAMS: NORTHERN STUDIES, NURSING

ANTH 320-3	Biology of Circumpolar Peoples
ANTH 407-3	Topics in British Columbia Ethnography
ANTH 409-3	Topics in British Columbia Archaeology
GEOG 411-3	Geomorphology of Northern BC
GEOG 412-3	Geomorphology of Cold Regions
ENVS 308-3	Northern Environments
HIST 405-3	Special Topics in the Canadian North
HIST 451-3	Special Topics in the History of Northern Europe
POLS 316-3	Community Government and Politics
POLS 340-3	First Nations Self-Government and Administration
POLS 401-3	Resource Politics
NORS 498-3	Special Topics in Northern Studies
NORS 499-(3-6)	Independent Research/Directed Reading in Northern Studies

Methodology

Two of the following courses; each must be from a different discipline:

ANTH 210-3	Seminar in Anthropology: Understanding Theory
ECON 205-3	Statistics for the Social and Management Sciences
ENVS 419-3	Social Research Methods
FNST 200-3	Methods and Perspectives in First Nations Studies
GEOG 205-3	Spatial Data Techniques
HIST 200-3	Historical Methodology: An Introduction to the Work of the Historian
PHIL 200-3	Critical Thinking
WMST 210-3	Research Methods
ANTH 451-3	Traditional Use Studies

Note: Students will be encouraged to participate in an optional semester at another university in the circumpolar north.

Elective Requirement

Forty-eight credit hours of electives at any level and in any subject to ensure completion of a minimum of 120 credit hours.

• Minor in Northern Studies

Northern Studies is an interdisciplinary field of particular importance to the University of Northern British Columbia.

A minor is 21 credit hours, 12 of which must be at the upper division level. Students must take NORS 101-3 (Northern Environments) and three courses from each of list A and B below. No more than two courses may be taken from any one discipline.

Courses used to fulfill program requirements for a major or another minor may not be used to fulfill requirements for this minor.

Required Courses

NORS 101-3 Northern Environments

Course List A: The Circumpolar North

ANTH 208-3	Anthropology of the Circumpolar North
ENVS 308-3	Northern Environments
GEOG 402-3	Geography of the Circumpolar North
GEOG 412-3	Geomorphology of Cold Regions
HIST 255-3	The Circumpolar North
HIST 451-3	Special Topics in the History of Northern Europe
INTS 340-3	The Circumpolar North in Global Perspective
INST 410-3	Environment and Development in the Circumpolar North
POLS 415-3	Comparative Northern Development

Any one of the First Nations courses on a relevant northern First Nations culture:

FNST 161-3	A First Nations Culture: Level 1
FNST 162-3	A First Nations Culture: Level 2
FNST 163-3	Carrier Culture: Level 1
FNST 164-3	Carrier Culture: Level 2
FNST 167-3	Tsimshian Culture: Level 1
FNST 168-3	Tsimshian Culture: Level 2
FNST 169-3	Nisga'a Culture: Level 1
FNST 170-3	Nisga'a Culture: Level 2

Course List B: The Canadian North

ANTH 202-3	Archaeology in Northern British Columbia
ANTH 204-3	Ethnolinguistics and Ethnoscience in Northern British Columbia
ANTH 206-3	Ethnography in Northern British Columbia
ANTH 320-3	Biology of Circumpolar Peoples
ECON 407-3	The Economy of Northern BC
GEOG 200-3	Geography of BC
GEOG 411-3	Geomorphology of Northern BC
GEOG 424-3	Social Geography of Northern Communities
HIST 301-3	The Canadian North
HIST 405-3	Special Topics in the Canadian North

Substitute Courses

One of the following courses may be substituted for one course in either list A or list B depending upon the course content.

NORS 498-3	Special Topics in Northern Studies
NORS 499-(3-6)	Independent Research/Directed Reading in Northern Studies

■ Nursing (BSN Program)

Statement of Nursing

Nursing is a professional practice discipline which offers a valuable service to the public by working with individuals, families, groups, and communities, to develop and implement strategies to meet health care needs.

Nursing: a) considers the physical, psychological, social, environmental, and spiritual domains of clients; b) requires cultural sensitivity; and, c) collaborates with clients, other health care providers, and the community.

Nursing is based on knowledge and skills developed in its own and related disciplines. Nursing knowledge is developed through research and other methods. Nursing advocates for a health care system that: a) emphasizes health promotion, and illness prevention, b) is based on practical, affordable, manageable, and culturally acceptable care and technology, and c) is available for all clients in a universal, equitable manner.

Statement of Nursing Education

Nursing education responds to societal concerns by developing a curriculum that is relevant and considers future trends in health care. Nursing education strives to provide an environment that is challenging and supportive, where all students learn the practice of nursing through the application and evaluation of knowledge, the practise of skills, and the internalization of caring and professional attitudes. A dynamic and positive relationship occurs between health care services and education through the sharing of knowledge, skills, and research.

Undergraduate Programs of Study

UNBC offers the following programs:

- **Northern Collaborative Baccalaureate Nursing Program (NCBNP)** is offered collaboratively between UNBC and the College of New Caledonia (CNC) and provides entry into the nursing profession. The integrated program of studies leads to a Bachelor of Science in Nursing (BSN), awarded by UNBC. Graduates are eligible to write the RN examination and to apply for registration with the Registered Nurses Association of British Columbia (RNABC) after passing the exam.
- **Post-diploma Baccalaureate Nursing Program** for registered nurses is offered by UNBC. Acknowledging the previous learning of post-RNs, the program is organized to expand and update knowledge and skills for nursing practice. Students have the opportunity to focus in one area of practice. Successful completion of the program leads to a BSN.

Aims of BSN Program

The goal of the BSN program is to improve access to and successful completion of nursing education for residents of the north. The aim of the nursing program is to prepare professional nurses who will:

- practise with cultural sensitivity
- practise with awareness of particular health needs of northern populations
- practise assessment and promotion of holistic health with individuals, families, groups, and communities
- participate in activities that reflect the appraisal of population health needs and implement and evaluate the appropriate interventions to meet those needs
- make nursing judgments that reflect application of current nursing research and research from related disciplines
- practice in a broad range of settings with an emphasis on northern communities
- influence health services to bring about policy development that meets the health needs of northern populations
- practice effectively within collaborative interdisciplinary and intersectorial health care teams
- demonstrate critical thinking skills and effective clinical decision making
- demonstrate skills of a self-directed learner
- meet professional practice requirements as identified in *Standards for Nursing Practice in British Columbia*
- NCBNP students will meet professional practice requirements as identified in the *RNABC Competencies Required of a New Graduate (1998)*

Specific Program Admission Requirements

The admission criteria and general requirements set out in the Admissions section of this Calendar are applicable to this section. Additional admission requirements to the nursing program follow:

• Northern Collaborative Baccalaureate Nursing Program

Admission is based on academic qualifications and available space. Priority admission will be given to students who meet admission criteria and apply by the deadline of **March 31**. Applications received after the deadline may be reviewed based on available space in the program.

Applicants from BC and Yukon secondary schools must:

- meet UNBC admission requirements, and
- have completed Principles of Math 11, English 12, Biology 12, Chemistry 12 with a minimum C+ (65%) in each course

UNDERGRADUATE PROGRAMS: NURSING

Other applicants must:

- meet UNBC admission requirements, and
- have completed the equivalent of Principles of Math 11, English 12, Biology 12, Chemistry 12 with a minimum of C+ (65%) in each course

• Post-diploma Baccalaureate Nursing Program

There is a moratorium on admissions to the program. Admission occurs in September and January. The fulfilment of admission requirements does not guarantee admission to the post-diploma program and is based on available space.

Applicants must:

- meet UNBC admission requirements
- submit official transcript(s) from diploma program
- provide evidence of active and continuing registration as a nurse in British Columbia or, in the case of newly graduated students, provide evidence of an interim working permit from the Registered Nurses Association of British Columbia (RNABC). Should new graduates admitted to the program subsequently fail in the CNATS examination, they will be required to withdraw from the program. Annual documentation of current, practising RNABC licensure is required while enrolled in the program.

Basic word processing skills are highly recommended for all applicants.

Academic Policies for Nursing Students

Health Assessment, Immunization & CPR Certification

All students accepted into the undergraduate nursing program will be sent documentation and information regarding health status and immunization policies. Prior to registration in courses, **all** students must submit:

- a health assessment completed and signed by a physician within 12 months prior to the commencement of course work which testifies that the applicant is able to undertake nursing studies, including clinical practica
- evidence of current immunization status for diphtheria, tetanus, poliomyelitis, measles, mumps, rubella, and Mantoux test (PPD) for tuberculosis; hepatitis B immunization is highly recommended
- documentation of CPR certification, level C, which must be maintained throughout the program

Student Professional Membership

NCBNP students are required to become student members of the RNABC, the cost of which will be the responsibility of the student. In addition to membership benefits, this requirement will provide student malpractice insurance.

Criminal Records Search

Students will be required to undergo a criminal records search prior to being admitted. Refer to page 172.

Program Costs

Costs associated with study in the BSN programs are the responsibility of the individual student, including transportation costs and any expenses involved in academic studies, lab, and clinical practica. Students may be required to complete clinical experiences at sites other than Prince George. Provision for all travel, accommodation, and living expenses associated with required clinical practice is the sole responsibility of the student.

Qualification for Degree

It is the responsibility of the student to ensure that his/her degree requirements are met. Graduation requirements are found in the Regulations and Policies section of this Calendar. To fulfill the requirements of graduation, the student must:

- attain a minimum cumulative GPA of 2.33 (C+) on courses for credit towards the degree
- obtain a minimum passing grade of 2.0 (C) in all nursing courses for credit towards the degree
- complete all requirements for either BSN program within eight years of admission into the program or from the first nursing course used for credit towards the degree.

Transfer Credit

Transfer credit and/or advanced standing may be awarded for course work completed at other recognized institutions. All transfer credit for course work taken prior to admission to the BSN program will be evaluated at the request of the student, and applied at the time of initial registration in the program. Once admitted to the nursing program, course work taken in other institutions for transfer credit towards the degree requires a letter of permission **prior** to registration in the course.

Northern Collaborative Baccalaureate Nursing Program

The total transfer credit awarded on the basis of acceptable work completed at other recognized institutions may not exceed 60 credit hours. Nursing courses must have been completed within the five years prior to admission to be eligible for transfer credit into the nursing program.

Post-diploma Baccalaureate Nursing Program

A total of 15 credits may be transferred from other recognized institutions into the nursing program. Of the 15 credits, a maximum of nine may be in nursing. In order to meet the clinical concentration requirement of the nursing program, students may transfer credit from successfully

completed studies at the nursing post-diploma level, provided that the certificate or diploma was completed within the five years prior to admission. Normally, the student is currently practising in that specialty area.

Course Challenge

Course challenge is available for up to six credits of the required nursing courses in the Post-diploma Baccalaureate Nursing program. Up to six credits of course challenge may be applied towards the degree if less than nine credit hours of nursing courses have been transferred in. Only three credits of course challenge can apply towards the degree if the maximum of nine credit hours in nursing have been transferred in.

Part-time Studies

Both undergraduate nursing programs may be taken on a part-time basis; however, students will be required to enrol full-time during a portion of their program.

Clinical Practica Scheduling and Expectations

Clinical practica may be configured and offered outside the existing timetable structure and sessional dates, such as a four or six week block. The students in the NCBNP must complete a nursing practicum during the Spring Session immediately following both their fourth and sixth semesters of study in the program.

Attendance in each nursing practicum course is mandatory. Students who miss more than 10% of their practicum experience will be considered at risk for failure and may be required to withdraw from the course.

Academic Performance

The student is subject to all policies and regulations of the institution(s) where they are registered for courses. In matters related to academic appeals and academic dishonesty, students are subject to the policies and rules of the institution where they are registered for courses. Issues related to progression through the program, such as probation, are governed by UNBC guidelines on academic standing and continuance.

Students may repeat a nursing course once. Students who fail a required nursing course twice are required to withdraw from the program.

Standards of Professional Conduct

All students are expected to abide by professional standards as set forth in the RNABC *Standards for Nursing Practice in BC* and the Canadian Nurses Association (CNA) *Code of Ethics for Registered Nurses (1997)*. Violation of professional standards may result in suspension or dismissal from the program or the educational institution.

Requirements

Nursing courses will normally be restricted to students admitted into the BSN program, unless otherwise specified in a course description. Not all courses in the Calendar are offered every semester or academic year. Admission to the BSN program does not guarantee registration in any specific course; early registration is advised.

A maximum number of three nursing courses may be taken by a non-nursing student without being admitted to the NCBNP.

• A. Northern Collaborative Baccalaureate Nursing Program

The minimum requirement for completion of the Northern Collaborative Baccalaureate Nursing Program BSN is 140 credit hours, 98 of these required credits in nursing.

In order to meet the graduation requirements for a BSN, the student must successfully complete the following courses:

Program Requirements

Lower Division Requirement

100 Level

NURS 101-3	The Art and Science of Nursing
NURS 102-3	Communication Theory and Practice
NURS 103-3	Introduction to Lifespan Development
ANTH 101-3	Linguistic and Sociocultural Approaches or equivalent
PSYC 101-3	Psychology as a Science or equivalent
HHSC 110-3 (Basic Microbiology)	at UNBC or BIOL 105 at CNC or equivalent
HHSC 111-3 (Anatomy and Physiology I)	at UNBC or BIOL 111 at CNC or equivalent
HHSC 112-3 (Anatomy and Physiology II)	at UNBC or BIOL 112 at CNC or equivalent

200 Level

NURS 201-4	Introduction to Health Assessment
NURS 202-3	Pathophysiological Concepts
NURS 203-3	Health Promotion in Families
NURS 204-3	Healing Modalities
NURS 205-3	Introduction to First Nations Health
NURS 206-3	Basic Nutrition
NURS 210-3	Nursing Practice with the Adult
NURS 211-5	Clinical Practicum: Adult
NURS 220-5	Extended Clinical Practicum I
MATH 242-3	(Statistics for Social and Health Sciences) at UNBC or MATH 104 at CNC or equivalent

Upper Division Requirement

300 Level

NURS 304-3	Introduction to Nursing Knowledge
NURS 306-3	Introduction to Epidemiology
NURS 308-3	Ethics and Law in Nursing
NURS 310-3	Nursing Practice with the Childbearing Family
NURS 311-5	Clinical Practicum: Childbearing Family
NURS 312-3	Mental Health Nursing Practice
NURS 313-3	Nursing Practice with the Elderly Adult
NURS 314-5	Clinical Practicum: Mental Health and Elderly Adult
NURS 320-5	Extended Clinical Practicum II

400 Level

NURS 403-3	Introduction to Nursing Research
NURS 408-3	Nursing Leadership
NURS 415-3	Introduction to Community Health and Nursing
NURS 416-4	Clinical Practicum: Community Nursing
POLS 403-3	Social and Health Policy and Administration

At least **one** of the following areas of clinical focus:

- both NURS 420-3 and NURS 440-8 Community Health Nursing Practicum: Community Health Nursing
- OR**
- both NURS 422-3 and NURS 441-8 First Nations Health and Nursing Practicum: First Nations Health and Nursing
- OR**
- both NURS 424-3 and NURS 442-8 Rural Nursing Practicum: Rural Nursing
- OR**
- both NURS 426-3 and NURS 443-8 Acute Care Nursing Practicum: Acute Care Nursing

Elective Requirement

Twenty-one credit hours chosen to ensure completion of a minimum of 140 credit hours and fulfillment of the following requirements:

- Three credit hours in First Nations Studies
- Three credit hours in Humanities
- At least six credit hours at the 200 level or above
- At least three credit hours at the 300 level or above
- Three credit hours at 200 level or above and related to focus area (with permission of program)
- Three credit hours at any level and in any subject

• B. Post-diploma Baccalaureate Nursing Program

The minimum requirement for completion of the Post-diploma Baccalaureate Nursing Program BSN is 64 credit hours with 43 of these required credits in nursing.

In order to meet the graduation requirements for the BSN, the post-RN student must successfully complete the following courses:

Program Requirements

Lower Division Requirement

100 Level

ANTH 101-3	Linguistic and Sociocultural Approaches
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200 Level

COMM 230-3	Organizational Behaviour
MATH 242-3	Statistics for Social and Health Sciences or equivalent

Upper Division Requirement

300 Level

NURS 301-3	Advanced Pathophysiology
NURS 302-3	Health Assessment
NURS 303-3	Nutrition
NURS 304-3	Introduction to Nursing Knowledge
NURS 305-1.5	Nursing Seminar I
NURS 306-3	Introduction to Epidemiology
NURS 307-3	Health Education

400 Level

NURS 401-4	Introduction to Community Nursing
NURS 403-3	Introduction to Nursing Research
NURS 404-3	Program Development and Evaluation
NURS 405-1.5	Nursing Seminar II
POLS 403-3	Social and Health Policy and Administration

At least **one** of the following areas of clinical concentration:

- both NURS 420-3 and NURS 421-6 Community Health Nursing Practicum
- OR**
- both NURS 422-3 and NURS 423-6 First Nations Health and Nursing Practicum
- OR**
- both NURS 424-3 and NURS 425-6 Rural Nursing Practicum

- both NURS 426-3
and NURS 427-6
- OR**
- Acute Care Nursing
Acute Care Nursing Practicum
- OR**
- both NURS 428-3
and NURS 429-6
- Nursing Management
Nursing Management Practicum
- OR**
- both NURS 430-3
and NURS 431-6
- Community Continuing Care
Nursing
Community Continuing Care
Nursing Practicum

Elective Requirement

Twelve credit hours chosen to ensure completion of a minimum of 64 credit hours and fulfillment of the following requirements:

- Three credit hours of First Nations Studies.
- Three credit hours at the 200 level or above and related to area of concentration (with permission of program).

Philosophy

Philosophy is the oldest academic discipline taught at a university. From a functional point of view, philosophy is synonymous with critical thinking. From a formal point of view, it is a body of knowledge answering three questions: what is it (ontology)?; what good is it (axiology)?; and, how do you know it (epistemology)?

• Minor in Philosophy

A minor in philosophy requires students to take 18 credit hours chosen from courses listed below. A minimum of 12 must be at the 300 or 400 level.

A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Philosophy.

200 Level

- PHIL 200-3 Critical Thinking
 POLS 204-3 History of Political Thought
 WMST 207-3 Introduction to Feminist Ethics

300 Level

- COMM 332-3 Business and Professional Ethics
 FNST 303-3 First Nations Religion and Philosophy
 FNST 304-3 First Nations Environmental Philosophy and Knowledge
 POLS 300-3 Modern Political Thought
 POLS 313-3 Women and Politics
 POLS 317-3 Politics and Ethics

400 Level

- ENVS 414-3 Environmental and Professional Ethics
 WMST 403-3 Science, Technology, and Women's Lives
 WMST 404-3 Advanced Feminist Ethics
 WMST 410-3 Feminist Political Philosophy

Physics (BSc program)

Physics is the study of nature at its most fundamental level. As such it is the science upon whose principles all other sciences and technologies are based. Because it is so basic, a major in physics is ideal preparation, not only for further study in physics, but also for advanced study in such diverse fields as biophysics, medicine, astrophysics, chemical physics, engineering, meteorology, and computer science.

• Major in Physics

A major in Physics requires students to complete 55 credit hours of Physics (17 courses); 33 credit hours of these must be at the upper division level.

The minimum requirement for completion of a Bachelor of Science degree with a major in Physics is 124 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Sciences
- OR**
- CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

- CHEM 100-3 General Chemistry I
 MATH 100-3 Calculus I
 MATH 101-3 Calculus II
 PHYS 110-4 Introductory Physics I: Mechanics
 PHYS 111-4 Introductory Physics II: Waves and Electricity
 CPSC 100-4 Computer Programing I
 or CPSC 110-3 Introduction to Computer Systems and Programing

200 Level

MATH 200-3	Calculus III
MATH 201-3	Analysis I
MATH 220-3	Linear Algebra
PHYS 200-3	Thermal Physics
PHYS 202-4	Electromagnetism and Optics
PHYS 205-3	Modern Physics I

Four additional credit hours of Physics at the 200 level [other than PHYS 215-3 (Energy, Physics and the Environment)].

Upper Division Requirement

300 Level

MATH 332-3	Differential Equations
PHYS 300-3	Classical Mechanics
PHYS 302-3	Quantum Mechanics I
PHYS 303-3	Advanced Physics Laboratory

Nine additional credit hours of Physics at the 300 level.

400 Level

PHYS 400-3	Quantum Mechanics II
PHYS 401-3	Seminar on Contemporary Topics in Physics
PHYS 407-3	Statistical Mechanics

Six additional credit hours of Physics at the 400 level.

Elective Requirement

Thirty-eight to 39 credit hours of electives at any level and in any subject to ensure completion of a minimum of 124 credit hours.

Recommended electives include:

CPSC 101-4	Computer Programming II
	or CPSC 311-4 Computer Applications Programming
CHEM 101-3	General Chemistry II
CHEM 200-3	Physical Chemistry I
MATH 330-3	Numerical Analysis I
MATH 340-3	Introduction to Probability

• Joint Majors

Students interested in Joint Majors with Chemistry, Computer Science, or Mathematics should consult the Joint Major section on page 27.

• Minor in Physics

Students interested in obtaining a minor in Physics must complete 27 credit hours of Physics, of which 12 must be at the upper level.

A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Physics.

The following courses are required:

PHYS 110-4	Introductory Physics I: Mechanics
PHYS 111-4	Introductory Physics II: Waves and Electricity
PHYS 202-4	Electromagnetism and Optics
PHYS 205-3	Modern Physics I

The other courses are selected in consultation with an advisor from the Physics program to reflect the student's specific interests.

• Minor in Environmental Physics

The minor in Environmental Physics allows students to acquire an understanding of the current environmental issues from the point of view of the underlying physical processes and of the experimental methods and techniques used in environmental research and assessment. To meet this objective, the degree requires the completion of a combination of lower and upper level physics courses selected from the existing physics curriculum. While the 100-200 level courses are meant to lay the conceptual and quantitative foundations needed to properly deal with the complex physical phenomena of the environment, the 300-400 level courses are strictly about the physics of the environment and the physical techniques used in environmental science.

Students interested in obtaining a minor in Environmental Physics must complete 24 credit hours of Physics, of which 12 must be at the upper level. The following courses are required:

PHYS 110-4	Introductory Physics I: Mechanics
	or PHYS 100-4 Introduction to Physics I
PHYS 111-4	Introductory Physics II: Waves and Electricity
	or PHYS 101-4 Introduction to Physics II
PHYS 205-3	Modern Physics I
PHYS 307-3	Selected Topics in Environmental Physics
PHYS 415-3	Physics of the Environment
PHYS 416-3	Physical Techniques in Environmental Science

Substitution for any of these courses may be permitted with approval of the Program Chair and Dean of the College.

■ Political Science (BA Program)

Besides literacy and numeracy, citizenship and diplomacy are fundamental skills needed to achieve a good quality of life. Citizenship includes both the rights and duties of membership in a political community. Diplomacy is the art and practice of reaching agreements through negotiation. A healthy democracy requires the active and informed participation of its citizens, but this is only possible with a good understanding of its political institutions, processes

and issues. Political Science is the discipline devoted to the systematic investigation of citizenship and diplomacy in local, national and international communities.

To achieve its purposes, the Political Science program offers the opportunity to study political philosophy, comparative politics, Canadian government, international politics and public administration. The latter field is offered in two public administration certificates. These certificates are available in municipal administration and First Nations administration.

Majors in Political Science must take a minimum of 15 courses in Political Science or other designated disciplines. The minor requires a minimum of six Political Science courses. Students may also choose to complete one or both of the above mentioned certificates in public administration (see below for a description and a listing of requirements for the two certificate programs).

Political Philosophy

Political philosophy investigates normative questions about political life: What is the best form of government? What is justice? Is there an inherent right to self-government?

Comparative Politics

Comparative politics examines the relationships between government and society around the world. This includes studies of individual countries such as Russia or Japan, as well as political issues such as the role of government in the economy, transitions to democracy or aboriginal-state relations across sets of countries.

Canadian Government

The study of Canadian government investigates the conflicts and challenges within Canadian society and the institutions of government at federal, provincial, local and First Nations levels. This includes such topics as Canadian political culture, federalism, political economy and the Charter.

International Politics

International politics examines politics among nations and will cover a wide variety of topics such as Canadian Foreign Policy, International Organizations as well as a diversity of theoretical approaches.

• Major in Political Science

Political Science majors are required to take 12 courses in Political Science, one course in Economics, and two courses in International Studies.

The Political Science major offers a foundation in four fields of political science: Canadian Government, Comparative Politics, Political Philosophy, and International Politics.

The minimum requirement for completion of a Bachelor of Arts with a major in Political Science is 120 credit hours.

Core Requirement

Students completing a Bachelor of Arts must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences

OR

- CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirement

Lower Division Requirement

100 Level

POLS 100-3 Contemporary Political Issues

200 Level

ECON 205-3 Statistics for Social and Management Sciences

INTS 205-3 Introduction to International Studies

POLS 200-3 Canadian Government and Politics

POLS 202-3 Comparative Government and Politics

POLS 204-3 History of Political Thought

Upper Division Requirement

300 and 400 Level

INTS 310-3 Origins and Evolution of International Studies

POLS 300-3 Modern Political Thought

POLS 303-3 Democracy and Dictatorship

POLS 325-3 Canadian Politics and Identity

Five additional courses from the list below. Students must complete at least **one** course from each of **three** of the following **four** fields: Political Philosophy, Comparative Politics, Canadian Government, and International Politics.

Political Philosophy

POLS 313-3 Women and Politics

POLS 317-3 Politics and Ethics

POLS 400-3 Classics in Political Theory

Comparative Politics

INTS 479-3	The European Union
POLS 305-3	United States Politics
POLS 308-3	Japanese Politics and Government
POLS 311-3	Russian Politics and Society
POLS 314-3	European Politics and Government
POLS 405-3	Politics of Democratic Transition
POLS 412-3	Comparative Aboriginal State Relations
POLS 414-3	Comparative Federalism
POLS 415-3	Comparative Northern Development

Canadian Government

GEOG 305-3	Political Geography
POLS 326-3	Canadian Constitution
POLS 332-3	Community Development
POLS 333-3	Politics and Government of BC
POLS 340-3	First Nations Self-Government and Administration
POLS 401-3	Resource Politics
POLS 402-3	Canadian Public Policy
POLS 403-3	Social and Health Policy and Administration

International Politics

INTS 300-3	International Organization
INTS 302-3	Canadian Foreign Policy
INTS 444-3	Russian Foreign Policy
INTS 460-3	Issues in Canadian Foreign Relations

Elective Requirement

Three credit hours of upper division electives (to meet UNBC residency requirement).

Sixty-six credit hours in any subject at any level to ensure completion of a minimum of 120 credit hours.

• Minor in Political Science

This minor provides students with a foundation in each of the fields of Canadian Politics, Comparative Politics, and Political Theory, as well as permits some specialization in upper division courses.

A minor in Political Science requires students to take at least six Political Science courses (18 credit hours), at least four of which must be upper division.

A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Political Science.

To fulfill the minor, students must successfully complete the following courses:

POLS 100-3	Contemporary Political Issues
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at least one of

POLS 200-3	Canadian Government and Politics
POLS 202-3	Comparative Government and Politics
POLS 204-3	History of Political Thought

and four upper division courses in Political Science.

Alternative courses may be substituted for the above with the written permission of the Program Chair or Dean of the College.

• Joint Majors

Students interested in a Joint Major with International Studies should consult the Joint Major section on page 27.

■ Psychology (BSc Program)

Psychology is the study of behaviour and mental processes. It focuses on identification of the fundamental mechanisms and processes that regulate the behaviour of organisms. The goal of the Psychology program at UNBC is to provide advanced knowledge in the substantive areas of psychology to students in the north, with special emphasis on areas of particular need and relevance to the region, especially applications of psychology to the understanding of human social and health problems. In addition, the program will provide training adequate to ensure students' competitiveness for advanced graduate study in psychology.

• Major in Psychology

Undergraduate students are required to take 16 psychology courses (51 credit hours). Of these, at least 12 courses (38 credit hours) must be upper division courses.

The minimum requirement for completion of a Bachelor of Science with a major in Psychology is 123 credit hours.

Core Requirement

Students completing a Bachelor of Science must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
CORE 103-3 Social Sciences

OR

- CORE 101-3 Humanities or
CORE 103-3 Social Sciences and
three credit hours of course work selected from the list of acceptable courses under the Science Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 and 200 Level

CPSC 150-3	Computer Applications
PSYC 101-3	Psychology as a Science
PSYC 102-3	Psychology and Human Problems
PSYC 215-4	Research Design and Methodology in Psychology
PSYC 240-3	History of Psychology

It is strongly recommended that students planning to major in Psychology select at least one elective course in mathematics and one in biology within the first two years.

Upper Division Requirement

300 and 400 Level

PSYC 315-4	Design and Analysis of Psychological Research I
PSYC 316-4	Design and Analysis of Psychological Research II

One of:

PSYC 301-3	Social Psychology
PSYC 306-3	Theories of Personality
PSYC 309-3	Introduction to Health Psychology

One of:

PSYC 307-3	Motivation and Emotion
PSYC 320-3	The Psychology of Learning
PSYC 330-3	Cognition

One of:

PSYC 317-3	Psychobiology
PSYC 318-3	Sensation and Perception

One of:

PSYC 303-3	Introduction to Abnormal Psychology
PSYC 345-3	Lifespan Development

One of:

PSYC 435-3	Methods in Psychobiology
PSYC 440-3	Methods in Learning
PSYC 442-3	Methods in Developmental Psychology
PSYC 445-3	Methods in Perception and Psychophysics
PSYC 450-3	Tests and Measures
PSYC 455-3	Methods in Social Psychology
PSYC 460-3	Methods in Cognitive Psychology
PSYC 465-3	Computers in Psychology
PSYC 470-3	Psychophysiology
PSYC 475-3	The Evaluation of Social Programs
PSYC 480-3	Critical Analysis in Psychology and the Health Sciences
PSYC 485-3	Current Topics in Psychological Research

PSYC 497-3 Senior Seminar

Twelve credit hours of 300 or 400 level Psychology courses.

Elective Requirement

Sixty-three credit hours of electives at any level and in any subject to ensure completion of a minimum of 123 credit hours.

• Minor in Psychology

The minor in Psychology provides students with a foundation in the natural and social science components of the discipline and exposure to its basic observational and analytic methods. It also allows the student to pursue special interests within the discipline at the upper year levels.

A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Psychology.

To fulfill the minor, students must successfully complete the following courses:

PSYC 101-3	Psychology as a Science
PSYC 102-3	Psychology and Human Problems
PSYC 215-4	Research Design and Methodology in Psychology

One of:

PSYC 301-3	Social Psychology
PSYC 303-3	Introduction to Abnormal Psychology
PSYC 306-3	Theories of Personality
PSYC 309-3	Introduction to Health Psychology
PSYC 345-3	Lifespan Development

One of:

PSYC 307-3	Motivation and Emotion
PSYC 317-3	Psychobiology
PSYC 318-3	Sensation and Perception
PSYC 320-3	The Psychology of Learning
PSYC 330-3	Cognition

Two other 300 or 400 level Psychology courses.

• BSc Honours – Psychology

Honours students are required to complete 135 credit hours. In addition to the requirements for the Psychology BSc program, students are required to take 12 additional credit hours including the following:

One PSYC 400 level course.

One of:

PSYC 435-3	Methods in Psychobiology
PSYC 440-3	Methods in Learning
PSYC 442-3	Methods in Developmental Psychology

PSYC 445-3	Methods in Perception and Psychophysics
PSYC 450-3	Tests and Measures
PSYC 455-3	Methods in Social Psychology
PSYC 460-3	Methods in Cognitive Psychology
PSYC 465-3	Computers in Psychology
PSYC 470-3	Psychophysiology
PSYC 475-3	The Evaluation of Social Programs
PSYC 480-3	Critical Analysis in Psychology and the Health Sciences
PSYC 485-3	Current Topics in Psychological Research

PSYC 490-3	Honours Thesis I
PSYC 495-3	Honours Thesis II

Each student will complete a thesis project [PSYC 490-3 (Honours Thesis I), PSYC 495-3 (Honours Thesis II)] under the supervision of a faculty member.

Admission to the honours program will take place after the end of the second year (i.e. upon completion of 60 credit hours) and will require a minimum CGPA of 3.33. Attaining the minimum requirement will not guarantee admission to the honours program, which will be at the discretion of the Program. To remain in the honours program requires the maintenance of a minimum CGPA of 3.33.

■ Resource Recreation

Students at UNBC may complete a Resource Recreation major in the BSc in Natural Resources Management (*see page 63*).

■ Resource-Based Tourism (BA Program)

The BA in Resource-Based Tourism recognizes that tourism has become the largest industry and employer in the world. Moreover, one of the fastest growing sectors in tourism is those attractions, activities, and experiences involving an interaction with natural and heritage resources. Accordingly, this curriculum examines the various components of the tourism phenomenon including planning, operations, marketing, resource management and environmental considerations, First Nations concerns, economic aspects, and business and entrepreneurial perspectives.

• Major in Resource-based Tourism

Undergraduate students are required to complete a minimum of 11 Resource Recreation Tourism courses (34 credit hours).

The minimum requirement for completion of a Bachelor of Arts with a major in Resource-Based Tourism is 121 credit hours.

Core Requirement

Students completing a Bachelor of Arts must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences
- **OR**
- CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

BIOL 101-4	Introductory Biology I
BIOL 102-4	Introductory Biology II
COMM 100-3	Introduction to Canadian Business
ECON 100-3	Microeconomics
GEOG 100-3	Environments and People
or ENVS 100-3	Environments and People
or INTS 205-3	Introduction to International Studies
or HIST 110-3	Indigena
or POLS 100-3	Contemporary Political Issues
NREM 100-2	Natural Resources Management I
PSYC 101-3	Psychology as a Science

Students with little or no computer experience are strongly encouraged to take CPSC 150-3 (Computer Applications) or CPSC 110-3 (Introduction to Computer Systems and Programing)

200 Level

BIOL 201-3	Ecology
or PSYC 301-3	Social Psychology
COMM 210-3	Financial Accounting
COMM 220-3	Financial Management I
or COMM 230-3	Organizational Behaviour
COMM 240-3	Introduction to Marketing
ECON 205-3	Statistics for the Social and Management Sciences
or MATH 242-3	Statistics for Social and Health Sciences
ENVS 203-3	Environmental Policy
or ENVS 204-3	Principles and Practices of Planning
or ENVS 205-3	Environment and Society
ENVS 305-3	Environmental Impact Assessment
or ENVS 401-3	Environmental Law
or ENVS 415-3	Rural Planning and Design

FNST 215-3	Issues in External Relations for Contemporary Indigenous Peoples
GEOG 200-3	Geography of BC
or INTS 307-3	Global Resources
or HIST 255-3	The Circumpolar World
GEOG 205-3	Spatial Data Techniques
RRT 203-3	Introduction to Resource-Based Tourism

GEOG 100-3	Environments and People
or ENVS 100-3	Environments and People
NREM 100-2	Natural Resources Management I
GEOG 200-3	Geography of BC
BIOL 201-3	Ecology
GEOG 303-3	Recreational Geography
INST 307-3	Global Resources

Upper Division Requirement

300 Level

COMM 300-3	Introduction to Business Law
COMM 302-3	Entrepreneurship
COMM 342-3	Services Marketing
or COMM 343-3	Consumer Behaviour
FNST 304-3	First Nations Environmental Philosophy and Knowledge
GEOG 303-3	Recreational Geography
NREM 303-3	First Nations' Approaches to Resource Management
RRT 301-3	Interpretive Techniques
RRT 302-3	Wildland Recreation
RRT 304-3	Organization and Management of Recreation and Tourism
RRT 310-4	Resource Valuation
RRT 333-3	Field Camp
	or equivalent

400 Level

RRT 401-3	Commercial Recreation and Tourism
RRT 404-3	Recreation Enterprises and Ecotourism Development
RRT 408-3	Social and Behavioural Dimensions of Recreation and Tourism
RRT 410-3	Research and Analysis in Recreation and Tourism
RRT 412-3	Issues and Trends in Resource Recreation and Tourism

Elective Requirement

Eleven credit hours of electives at any level and in any subject to ensure completion of a minimum of 121 credit hours.

Potential Resource-Based Tourism Streams

The following streams in the Resource-Based Tourism degree provide students with the opportunity to visualize potential course selections, develop course 'packages' and consider career options. Students are not required to follow these particular streams.

Biophysical Stream

BIOL 101-4	Introductory Biology I
BIOL 102-4	Introductory Biology II

Socio-Cultural Stream

HIST 110-3	Indigena
PSYC 101-3	Psychology as a Science
INTS 205-3	Introduction to International Studies
FNST 215-3	Issues in External Relations for Contemporary Indigenous Peoples
HIST 255-3	The Circumpolar World
PSYC 301-3	Social Psychology
NREM 303-3	First Nations' Approaches to Resource Management
FNST 304-3	First Nations Environmental Philosophy and Knowledge

• Minor in Resource-Based Tourism

The minor in Resource-Based Tourism is designed to afford students an opportunity to gain a foundational set of knowledges in tourism while pursuing another major. The minor has three required courses basic to the field of Resource-Based Tourism (nine credits) and a set of elective courses (minimum of nine credits). A maximum of two courses (six credit hours) used to fulfill program requirements for a major (or another minor) may also be used to fulfill requirements for this minor. The emphasis of this minor is on the entrepreneurial aspects of the resource-based tourism industry.

Required Courses

COMM 100-3	Introduction to Canadian Business
RRT 203-3	Introduction to Resource-Based Tourism
RRT 401-3	Commercial Recreation and Tourism

Elective Courses

Nine credit hours from the following:

COMM 240-3	Introduction to Marketing
RRT 304-3	Organization and Management of Recreation and Tourism
RRT 404-3	Recreation Enterprises and Ecotourism Development
RRT 408-3	Social and Behavioural Dimensions of Recreation and Tourism
RRT 410-3	Research and Analysis in Recreation and Tourism
RRT 412-3	Issues and Trends in Resource Recreation and Tourism

■ Russian Studies

• Minor in Russian Studies

This minor is designed to provide students with an interdisciplinary course of study of Russia as a complement to their major program. The minor requires students to take a total of 21 credit hours.

To fulfill the minor, students must successfully complete the following courses:

Language

INTS 131-3 Beginning Russian I
INTS 132-3 Beginning Russian II

Area Studies

GEOG 302-3 Geography of Russia
HIST 356-3 Soviet History
INTS 200-3 Contemporary Russia
POLS 311-3 Russian Politics and Society

Additional Requirements

One of:

ENGL 351-3 Russian Literature in Translation
HIST 355-3 Russian Imperial History
INTS 444-3 Russian Foreign Policy
POLS 405-3 Politics of Transition in Russia and Eastern Europe

Students intending to pursue advance Russian studies are strongly recommended to take the second year level Russian language courses.

INTS 231-3 *Intermediate Russian I*
INTS 232-3 *Intermediate Russian II*

Transfer Credits

Courses taken in other programs or at other universities (including those in Russia) may be counted as courses towards the minor requirements with permission from the Russian Studies Committee.

■ Social Work (BSW Program)

The Social Work program offers a schedule of studies leading to the degree of Bachelor of Social Work (BSW).

The Bachelor of Social Work at UNBC is designed to prepare students for beginning level generalist social work practice with individuals, families, groups and communities. The program's orientation places emphasis on social work in northern and remote areas, First Nations, women and the human services, and community practice and research. Analyses of class, gender and race relations are considered central to the Social Work program. As mandated by its accrediting body, the Canadian Association of Schools of Social Work (CASSW), and the Social Work Code of Ethics, Social Work at UNBC provides a professional program that advocates for justice and equality, and equips graduates with the intellectual, analytical, practical and professional skills needed to promote beneficial change.

Admission

Admission to the Bachelor of Social Work program is by selection. Students will normally complete 60 credit hours of study and achieve a minimum grade point average of 2.67 (B-) (calculated on a student's most recent 60 credit hours of study) and meet other selection criteria prior to program entry.

Students who plan to enrol in the Social Work program in one of the regional campuses outside Prince George are admitted under the same criteria and regulations as those students applying in Prince George.

The Social Work Program will permit up to three Social Work elective courses to be taken prior to formal admission to the BSW program. Successful completion of these courses does not guarantee admission into the program.

Under collaborative agreements between UNBC and the three northern community colleges (College of New Caledonia, Northern Lights College, and Northwest College) students who have completed social service worker training programs at those colleges are eligible to receive credit as determined under the agreement.

Students who have completed a social service worker training program at other colleges may be eligible for discretionary credit.

Students will be required to undergo a criminal records search prior to being admitted. Refer to page 172.

Undergraduate students are required to take 66 credit hours of Social Work courses as well as FNST 100-3 (The Aboriginal Peoples of Canada) and WMST 100-3 (Introduction to Women's Studies).

It will be expected that students applying to the Social Work Program with a Baccalaureate degree in a related discipline will normally have completed courses that are equivalent to the four BSW course pre-requisites:

SOCW 200-3	Introduction to Social Work Practice
SOCW 201-3	Introduction to Social Welfare
FNST 100-3	The Aboriginal Peoples of Canada
WMST 100-3	Introduction to Women's Studies

Students admitted to the Bachelor of Social Work program are required to withdraw from the Bachelor of Social Work program if they register a second fail in Social Work Field Education (SOCW 302-6 and/or SOCW 402-15).

Students are required to select 15 credit hours of Social Work electives.

The minimum requirement for a Bachelor of Social Work is 120 credit hours.

Core Requirement

Students completing a Bachelor of Social Work must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences
- OR**
- CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

200 Level

SOCW 200-3	Introduction to Social Work Practice
SOCW 201-3	Introduction to Social Welfare
FNST 100-3	The Aboriginal Peoples of Canada
WMST 100-3	Introduction to Women's Studies

Upper Division Requirement

300 Level

SOCW 300-3	Social Work Communication Skills
SOCW 301-3	Critical Social Work Practice
SOCW 302-6	Social Work Field Education
SOCW 320-3	Critical Social Policy
SOCW 330-3	Social Work Research/Policy/Practice
SOCW 336-3	Social Work Philosophy and Ethics

400 Level

SOCW 401-3	Northern/Remote Social Work Practice
SOCW 402-15	Social Work Field Education 2
SOCW 410-3	First Nations Social Work Issues
SOCW 420-3	Family/Child Welfare Policy

Elective Courses

15 credit hours of Social Work electives. The elective courses are numbered in the 400 ranges, but may be taken by students enrolled in their third or fourth year of studies.

SOCW 421-3*	Human Growth and Development
SOCW 424-3	Child Welf/Sites of Resistance
SOCW 426-3	Current Issues in Child Welfare Practice
SOCW 430-3	Social Work and Profiling Communities
SOCW 432-3	Unemployment and Social Work
SOCW 433-3	Women in the Human Services
SOCW 434-3	First Nations/Human Services
SOCW 435-3	Community Social Policy
SOCW 437-3	Social Work with Groups and Communities
SOCW 438-3	Comparative Welfare Analysis
SOCW 439-3	Social Work/Law and the Justice System
SOCW 440-3	Social Work in Mental Health
SOCW 441-3	Social Work and Substance Abuse
SOCW 442-3	Social Work with Victims of Abuse
SOCW 443-3	Medical Social Work
SOCW 444-3	Social Work Critical Issues in Aging
SOCW 445-3	Social Work and Cross-Cultural Practice
SOCW 447-3	Hinterland Social Work in an International Perspective
SOCW 448-3	Inequality and Income Security
SOCW 449-3	Gender and Sexuality
SOCW 450-3	Social Work and Family Practice
SOCW 452-3	Social Work/Crisis Intervention
SOCW 498-(3-6)	Special Topics
SOCW 499-3	Directed Readings

* Please see note on SOCW 421-3 on page 161

Elective Requirement

Thirty-nine to 42 credit hours of electives at any level and in any subject to ensure completion of a minimum of 120 credit hours.

Wildlife and Fisheries

Students at UNBC may complete a Wildlife and Fisheries major in Natural Resources Management (*see page 63*).

■ Women's Studies (BA Program)

The program in Women's Studies provides an interdisciplinary study of women and gender relations with an emphasis on women's history, social and cultural contributions, contemporary roles, and the structures and processes of gender differentiation. The program is designed to provide students with a systematic knowledge of scholarship by, for and about women.

Additionally, the program develops students' awareness of the gendered nature of society through the analysis of changing ideals and practices that underlie social perceptions of womanhood, femininity, and female and male relations.

Finally, the Women's Studies program develops students' capacity to analyze their own gendered identities by questioning the underlying assumptions of their every-day world.

Women's Studies develops the students' skills in critical thinking and oral and written expression as they study the complexity of social life, the inter-relations among different cultures, and the connections between gender, sexuality, race and class. The program enhances the students' qualifications for careers in the public, para-public, and private sectors: in business, education, international relations, government, communications, the sciences and/or social sciences. It also prepares students for post-graduate Women's or Gender Studies.

• Major in Women's Studies

A major in Women's Studies requires students to take 51 credit hours of Women's Studies (17 courses), at least 36 credit hours of which must be upper division courses. Those courses from the offerings of other programs with content on women or the study of gender relations are designated as approved ancillary courses, and may be included among the 51 credit hours required for a major in the program in Women's Studies, for example, ECON 301-3 (Women and the Economy). Students may not take more than 60 credit hours in Women's Studies without written permission from the Program Chair.

The minimum requirement for completion of a Bachelor of Arts with a major in Women's Studies is 120 credit hours.

Core Requirement

Students completing a Bachelor of Arts must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
CORE 104-3 Life Sciences
- OR**
- CORE 102-3 Physical Sciences or
CORE 104-3 Life Sciences and
three credit hours of course work selected from the list of acceptable courses under the Arts and Humanities Core requirements on page 93.

Program Requirements

Lower Division Requirement

100 Level

- WMST 100-3 Introduction to Women's Studies
- WMST 101-3 The Status of Women
or WMST 102-3 Women's Movements

200 Level

- WMST 202-3 Women's Work
- WMST 209-3 Gender and Cultural Studies: An Introduction
- WMST 210-3 Research Methods

Upper Division Requirement

300 Level

- WMST 308-3 Women, Knowledge, and Education
- WMST 311-3 History of Feminist Theories

Twelve credit hours at the 300 or 400 level in Women's Studies or from the list of approved ancillary courses for a major in the Program in Women's Studies.

400 Level

- WMST 409-3 Advanced Feminist Social Science Methodology
- WMST 411-3 Contemporary Feminist Theories

Two of:

- WMST 401-4 Women and Visual Pleasures: Fashion, Film, Fine Arts and Photography
- WMST 402-3 Political Economy and First Nation's Women
- WMST 403-3 Science, Technology, and Women's Lives

Six credit hours at the 400 level from Women's Studies or from the list of approved ancillary courses for a major in the program in Women's Studies.

Additional Requirement of a Minor in a Second Program

Students who take a major in Women's Studies are required to complete a minor in a second program of their choice

discussed with the Program Chair prior to approval of the minor. A minor requires a minimum of 18 credit hours of required courses in the selected program, 12 of which must be upper division. Courses used to fulfill the program requirements for a major in Women's Studies may not also be used to fulfill a requirement for a minor.

Elective Requirement

Electives to ensure completion of a minimum of 120 credit hours.

Approved Ancillary Courses for a Major in the Program in Women's Studies

This list is reviewed annually by the Women's Studies faculty. It approves courses from other programs with content focused on women and/or gender relations and which qualify for the requirements for a major. The following courses are included and may be counted towards the required courses in a major in Women's Studies.

ANTH 307-3 Feminist Perspectives in Anthropology
ANTH 309-3 Anthropological Perspectives on Inequality
COMM 333-3 Women in Organizations

ECON 301-3 Women and the Economy
ENGL 200-3 Gender and Literary Theory
ENGL 210-3 Women and Literature
ENGL 410-3 Women and Literature
ENGL 430-3 Canadian Literature
ENVS 309-3 Women and Environmental Studies
FNST 302-3 First Nations Health and Healing
HIST 402-3 Women in Canada
HIST 453-3 Topics in the History of Gender
HIST 454-3 Comparative Women's History
INTS 308-3 Gender and International Studies
POLS 313-3 Women and Politics
POLS 401-3 Resource Politics
POLS 403-3 Social and Health Policy and Administration
NURS 412-3 Women and Health
SOCW 433-3 Women in the Human Services

• Minor in Women's Studies

In conjunction with a major in another program, students may pursue a minor in Women's Studies. A minor in Women's Studies requires 18 credit hours of Women's Studies courses, 12 of which must be upper division courses. Courses used to fulfill program requirements for a major (or another minor) may not be used toward a minor in Women's Studies.

Certificate Programs

The Certificate program is intended to enhance public access to a university education with a flexible course of study that allows either a short term exit (upon completion of Certificate requirements) or the option of laddering into other programs, including the Bachelor program.

The Certificate also provides flexibility. All courses in the Certificate are university-credit courses. This means that students can apply credit taken in their Certificate to other programs should they later decide to pursue a bachelor's degree. Moreover, the requirements for the Certificate could be completed in one year or could be completed on a part-time basis over several years, depending upon course scheduling and the situation of the student.

As soon as a student completed the 10 courses required in the program of study, the student would be eligible to receive his or her Certificate. The completion of the Certificate would give students the equivalent of one full year of university credit. This provides a laddered program of study which could result in the completion of a bachelor's degree with three more years of study at UNBC or another university. Because the program is based on existing undergraduate courses, Certificate students will take their courses alongside regular, full-time students.

The requirements for admission into a Certificate program are the same as for any student enrolled in a UNBC undergraduate program.

To be eligible for a certificate, students must achieve a minimum GPA of C, based on all courses taken at UNBC that are applied to the Certificate. University transfer credits also can be applied to the program, as appropriate, to a maximum of 15 credit hours.

• Aboriginal Community Resource Planning

The Aboriginal Community Resource Planning Certificate (ACP) consists of 10 courses (minimum 30 credit hours) drawn primarily from First Nations Studies and Environmental Studies, with offerings from Geography, Commerce, Resource Recreation and Tourism, and Natural Resources and Environmental Management. The courses from First Nations Studies provide students with foundations in First Nations in Canada, cultures and languages, internal and external issues, First Nations environmental philosophies, and the courses from Environmental Studies provide foundations in the principles of traditional planning. The program is generic in nature so that the knowledge can be transferred to different community settings, as well as to the variety of situations that students will encounter throughout their lives.



Two important purposes of the Certificate are, first, to provide requisite education to assist individuals involved in the resource planning in First Nations communities and, second, to provide expanded educational opportunities at the university level for students who are not in a position to commit to a four year program of study.

Students must meet with a First Nations Studies academic advisor prior to starting this program.

Certificate Requirements

ENVS 104-3	Introduction to Planning
ENVS 204-3	Principles of Practices of Planning
FNST 100-3	First Nations of Canada
FNST 304-3	First Nations Environmental Philosophy and Knowledge
FNST 249-3	Aboriginal Resource Planning
GEOG 205-3	Spatial Data Techniques

One of:

- FNST 131-3 A First Nations Language: Level 1
 - FNST 132-3 A First Nations Language: Level 2
 - FNST 133-3 Carrier Language: Level 1
 - FNST 134-3 Carrier Language: Level 2
 - FNST 135-3 Haisla Language (X_a'islaḵ'ala): Level 1
 - FNST 136-3 Haisla Language (X_a'islaḵ'ala): Level 2
 - FNST 137-3 Tsimshian Language (Sm'algyax): Level 1
 - FNST 138-3 Tsimshian Language (Sm'algyax): Level 2
 - FNST 139-3 Nisga'a Language: Level 1
- or
- FNST 161-3 A First Nations Culture: Level 1
 - FNST 162-3 A First Nations Culture: Level 2
 - FNST 163-3 Carrier Culture: Level 1
 - FNST 164-3 Carrier Culture: Level 2
 - FNST 167-3 Tsimshian Culture: Level 1
 - FNST 168-3 Tsimshian Culture: Level 2
 - FNST 169-3 Nisga'a Culture: Level 1

One of:

- ARTS 102-3 Research Writing
- ENGL 170-3 Writing & Communication Skills
- FNST 200-3 Methods in First Nations Studies

One of:

- FNST 215-3 Issues in External Relations for Contemporary Indigenous Peoples
- FNST 216-3 Issues in Internal Relations for Contemporary Indigenous Peoples
- POLS 200-3 Canadian Politics and Government

One of:

- GEOG 202-3 Economic Geography
- COMM 100-3 Introduction to Canadian Business
- GEOG 202-3 Economic Geography
- NRES 100-3 Communication in Natural Resource and Environmental Sciences
- RRT 203-3 Introduction to Resource-based Tourism

• First Nations Public Administration

The Certificate in First Nations Public Administration consists of 10 courses (30 credit hours) drawn primarily from the program of First Nations Studies and Political Science, with offerings from Business Administration, and Economics. The courses from First Nations Studies provide students with foundations in internal and external First Nations issues and culture, and the courses from Political Science provide foundations in the principles of government, politics, and public administration, as well as some specialization in First Nations law, self-government and administration. The program is generic in nature so that the knowledge can be transferred to different community

settings, as well as to the variety of situations that students will encounter throughout their lives.

Two important purposes of the Certificate are, first, to provide requisite education to assist individuals involved in the administration of First Nations governments and, second, to provide expanded educational opportunities at the university level for students who are not in a position to commit to a four-year program of study.

Students must establish their course of study with approval from the Chair of First Nations Studies.

Certificate Requirements

- COMM 210-3 Financial Accounting
- ECON 101-3 Macroeconomics
- ENGL 170-3 Writing and Communication Skills
- or ARTS 102-3 Research Writing
- FNST 100-3 The Aboriginal Peoples of Canada
- POLS 100-3 Contemporary Political Issues
- POLS 200-3 Canadian Government and Politics
- POLS 220-3 Canadian Law and Aboriginal Peoples
- or FNST 250-3 Canadian Law and Aboriginal Peoples
- POLS 340-3 First Nations Self-Government and Administration

Two of:

- FNST 215-3 Issues in External Relations for Contemporary Indigenous Peoples
- FNST 216-3 Issues in Internal Organization for Contemporary Indigenous Peoples

Any First Nations Culture Level 1 course:

- FNST 161-3 A First Nations Culture: Level 1
- FNST 163-3 Carrier Culture: Level 1
- FNST 167-3 Tsimshian Culture: Level 1
- FNST 169-3 Nisga'a Culture: Level 1
- FNST 171-3 Metis Studies Level 1

Any First Nations Language Level 1 course:

- FNST 131-3 A First Nations Language: Level 1
- FNST 133-3 Carrier Language: Level 1
- FNST 135-3 Haisla Language (X̄a'islaḵ'ala): Level 1
- FNST 137-3 Tsimshian Language (Sm'algyax): Level 1
- FNST 139-3 Nisga'a Language: Level 1

• General First Nations Studies

The Certificate in General First Nations Studies is a multidisciplinary program allowing individuals to pursue their interests in First Nations Studies through a concentrated program of courses on First Nations subjects.

The program ladders well into a major in First Nations Studies, Anthropology, Biology, History, Education, English, Environmental Studies, Forestry, Geography, Nursing and Community Health, Political Science, Psychology, Social Work and Women's Studies.

The Certificate requires successful completion of 10 courses (30 credit hours). Eighteen of these credit hours are earned by completing six required courses. The remaining four courses (12 credit hours) consist of options from the First Nations Studies program, including at least one course from the approved ancillary course list.

Students must establish their course of study with approval from the Chair of First Nations Studies.

Certificate Requirements

FNST 100-3	The Aboriginal Peoples of Canada
FNST 200-3	Methods and Perspectives in First Nations Studies
FNST 215-3	Issues in External Relations for Contemporary Indigenous Peoples
ANTH 206-3	Ethnography in Northern British Columbia
or FNST 304-3	First Nations Environmental Philosophy and Knowledge
HIST 110-3	Indigena

A Level 1 course from the series of First Nations Culture or First Nations Language:

FNST 131-3	A First Nations Language: Level 1
FNST 133-3	Carrier Language: Level 1
FNST 135-3	Haisla Language (X̱a'islaḱ'ala): Level 1
FNST 137-3	Tsimshian Language (Sm'algyax): Level 1
FNST 139-3	Nisga'a Language: Level 1
FNST 161-3	A First Nations Culture: Level 1
FNST 163-3	Carrier Culture: Level 1
FNST 167-3	Tsimshian Culture: Level 1
FNST 169-3	Nisga'a Culture: Level 1
FNST 171-3	Metis Studies Level 1

Nine credit hours of First Nations Studies at any level approved by the Chair of First Nations Studies.

Three credit hours from the approved list of ancillary courses. Please refer to page 55 for the list of *Approved Ancillary Courses*.

• Métis Studies

The Certificate in Métis Studies offers a program that allows individuals to pursue their interests through a concentrated program of courses on the Métis Nation.

The certificate requires successful completion of 10 courses (30 credit hours).

Persons of Métis descent, other aboriginal people, and people who are working with aboriginal organizations will be especially interested in this program.

The Certificate in Métis Studies allows students to receive a credential after one year of studies which can be laddered into any UNBC program. It especially complements a major in First Nations Studies, Anthropology, History, English, Environmental Studies, Forestry, Geography, Nursing and Community Health, Political Science, Psychology, Social Work and Women's Studies.

The Certificate will be primarily offered through the Prince George campus. First Nations Studies is committed to distance delivery where possible. Students at other regional locals could take the certificate through a combination of face to face and distance delivery.

Students must establish their course of study with approval from the chair of First Nations Studies.

Certificate Requirements

FNST 100-3	The Aboriginal Peoples of Canada
FNST 200-3	Methods and Perspectives in First Nations Studies

Three of:

FNST 171-3	Métis Studies Level 1
FNST 172-3	Métis Studies Level 2
FNST 271-3	Métis Studies Level 3
FNST 272-3	Métis Studies Level 4
FNST 131-3	First Nations Language (Cree Language): Level 1
FNST 132-3	First Nations Language (Cree Language): Level 2
FNST 231-3	First Nations Language (Cree Language): Level 3
FNST 232-3	First Nations Language (Cree Language): Level 4

NOTE: Cree is subject to the availability of language instructors.

Fifteen credit hours (5 courses) of First Nations Studies courses dealing with Métis culture, language, or issues. These options will be determined by FNST course offerings in that year. They can be either lower division or upper division courses. They can include ancillary courses identified by the program. An ancillary course is defined as a course in a program other than First Nations Studies which has sufficient substantive content in common with First Nations Studies. The program maintains a list of approved ancillary courses.

• Nisga'a Studies

The Certificate in Nisga'a Studies offers a program that allows individuals to pursue their interests in First Nations Studies through a concentrated program of courses on the Nisga'a First Nation.

The certificate requires successful completion of 10 courses (30 credit hours).

Persons of Nisga'a descent, other aboriginal people, and people who are working with aboriginal organizations will be especially interested in this program.

It especially complements a major in First Nations Studies, Anthropology, History, English, Environmental Studies, Forestry, Geography, Nursing and Community Health, Political Science, Psychology, Social Work and Women's Studies.

The Certificate will be primarily offered through the WWN. First Nations Studies is committed to distance delivery where possible. Students at the Prince George campus or other regional locals could take the certificate through a combination of face to face and distance delivery.

Students must establish their course of study with approval from the chair of First Nations Studies.

Certificate Requirements

FNST 200-3	Methods and Perspectives in First Nations Studies
FNST 215-3	Issues in External Relations for Contemporary Indigenous Peoples

Six of:

FNST 139-3	Nisga'a Language: Level 1
FNST 140-3	Nisga'a Language: Level 2
FNST 169-3	Nisga'a Culture: Level 1
FNST 170-3	Nisga'a Culture: Level 2
FNST 239-3	Nisga'a Language: Level 3
FNST 240-3	Nisga'a Language: Level 4
FNST 269-3	Nisga'a Culture: Level 3
FNST 270-3	Nisga'a Culture: Level 4

NOTE: It is possible to take all four levels of one category, either language or culture, and two levels of the other category.)

Six credit hours (two courses) of First Nations Studies dealing with Nisga'a culture, language, or issues. These two options will be determined by FNST course offerings in that year. They can be at any level. They can include ancillary courses identified by the program. An ancillary course is defined as a course in a program other than First Nations Studies which has sufficient substantive content in common with First Nations Studies. The program maintains a list of approved ancillary courses.

• Public Administration

The Certificate in Public Administration consists of 10 courses (30 credit hours) drawn primarily from the Political Science program; offerings from Business Administration, Economics and English are also included. The program is generic in nature so that the knowledge acquired from the program of study can be transferred to different government settings, as well as to the variety of situations that students will encounter throughout their lives. At the same time, the courses in the Certificate place special emphasis on local government *in the north* which sets it apart from similar programs offered by institutions in the southern regions of the province.

The purpose of the certificate is three-fold: first, to provide educational opportunities to assist individuals involved in the administration of municipal governments, health boards, school boards and provincial government departments and agencies in northern British Columbia; second, to deliver the four specialized courses in local government administration for the Municipal Officers' Association Intermediate Certificate in Municipal Administration; and, third, to provide expanded educational opportunities at the university level for students who are not in a position to commit to a four-year program of study.

Certificate Requirements

100 Level

ENGL 170-3	Writing and Communication Skills
ECON 101-3	Macroeconomics
POLS 100-3	Contemporary Political Issues

200 Level

COMM 210-3	Financial Accounting
POLS 200-3	Canadian Government and Politics
*POLS 250-3	Law and Municipal Government
*POLS 251-3	Local Services and Public Policy
*POLS 260-3	Politics of Public Finance

300 Level

*POLS 316-3	Community Government and Politics
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Three credit hours of electives at any level and in any subject.

*Courses for the MOA Intermediate Certificate in Municipal Administration.

• Rural and Northern Nursing

The Certificate in Rural and Northern Nursing provides the opportunity for experienced Registered Nurses to pursue post-diploma undergraduate studies through a concentrated program of courses in Rural and Northern Nursing. The Certificate will provide students with some of the essential knowledge and clinical skills needed to provide nursing care in rural and northern community hospitals, clinics and health centres.

At present, the major employers of nurses are Community and Regional Health Boards (in hospitals, public health and home care). Other employers include Ministry of Children and Families, community agencies, First Nations communities and Medical Services Branch of Health Canada. This Certificate will be of particular relevance to nurses employed in rural and northern communities.

The Certificate program is based upon the principles of primary health care, and an orientation to the needs of communities. The program includes some existing courses that have been offered within the Post -diploma BSN program, with the addition of some enhanced courses in health assessment, health promotion, and management of emergent situations.

The Certificate requires successful completion of 30 credit hours.

A maximum of 15 credit hours may be transferred from other recognized institutions into the Certificate program.

The Certificate can be completed in one year of study or extended over several years. Students can complete their BSN through the attainment of 33 additional credit hours of prescribed courses.

This Certificate does not replace the UNBC Post -diploma BSN program as it offers a focus in one specialized area only. Other focus areas previously provided through the Post Diploma BSN, notably community health, community continuing care, First Nations health and nursing, and nursing management are not included in the Certificate program.

Applicants must meet the admission criteria for the Post-diploma Baccalaureate Nursing Program, and in addition have a minimum of one year (1700 hours) experience as a registered nurse. Nursing Program policies for Registered Nurse students pursuing a degree will apply to Certificate students. See page 68.

Certificate Requirements

NURS 301-3	Advanced Pathophysiology
NURS 302-3	Health Assessment
NURS 401-4	Introduction to Community Nursing
NURS 402-3	Health Promotion
NURS 409-3	Pharmacotherapeutics for Nurses
NURS 417-4	Management of Emergent Situations
NURS 460-4	Advanced Health Assessment
NURS 450-6	Rural and Northern Nursing



BSN Completion

Students wishing to complete the Post -diploma BSN will be required to successfully complete 33 credit hours in addition to the Certificate in Rural and Northern Nursing.

100 Level

ANTH 101-3 Linguistic and Sociocultural Approaches

200 Level

COMM 230-3 Organizational Behaviour
MATH 242-3 Statistics for Social and Health Sciences
or equivalent

300 Level

NURS 304-3 Introduction to Nursing Knowledge
NURS 306-3 Introduction to Epidemiology

400 Level

NURS 403-3 Introduction to Nursing Research
NURS 408-3 Nursing Leadership
POLS 403-3 Social and Health Policy and Administration

Electives

Three credit hours of First Nations Studies.
Additional electives to total 63 credit hours (normally, six credit hours).

• Traditional Environmental Knowledge

The Certificate in Traditional Environmental Knowledge (TEK) is a multidisciplinary program allowing individuals to pursue their interests in TEK through a concentrated program of courses on First Nations and Environmental subjects.

This program ladders well into a major in First Nations Studies, Anthropology, Biology, History, Education, English, Environmental Studies, Forestry, Geography, Nursing and Community Health, Political Science, Psychology, Social Work and Women's Studies as well as leading into majors in Physics and Chemistry.

The Certificate requires successful completion of 10 courses (minimum 30 credit hours). Eighteen of these hours are earned by completing six required First Nations courses. The remaining four courses (minimum 12 credit hours) consist of options from four different streams: non-Science, Biology, and Chemistry or Physics.

Students must establish their course of study with approval from the chair of First Nations Studies.

Certificate Requirements

FNST 100-3	First Nations of Canada
FNST 304-3	First Nations Environmental Philosophy and Knowledge
FNST 203-3	Introduction to Traditional Environmental Knowledge

One of:

FNST 131-3	A First Nations Language: Level 1
FNST 132-3	A First Nations Language: Level 2
FNST 133-3	Carrier Language: Level 1
FNST 134-3	Carrier Language: Level 2
FNST 135-3	Haisla Language (X_a'islaq'ala): Level 1
FNST 136-3	Haisla Language (X_a'islaq'ala): Level 2
FNST 137-3	Tsimshian Language (Sm'algyax): Level 1
FNST 138-3	Tsimshian Language (Sm'algyax): Level 2
FNST 139-3	Nisga'a Language: Level 1
or	
FNST 161-3	A First Nations Culture: Level 1
FNST 162-3	A First Nations Culture: Level 2
FNST 163-3	Carrier Culture: Level 1
FNST 164-3	Carrier Culture: Level 2
FNST 167-3	Tsimshian Culture: Level 1
FNST 168-3	Tsimshian Culture: Level 2
FNST 169-3	Nisga'a Culture: Level 1

One of:

ARTS 102-3	Research Writing
ENGL 170-3	Writing & Communication Skills
FNST 200-3	Methods in First Nations Studies

One of:

FNST 206-3	First Nations Oral Literatures
FNST 215-3	Issues in External Relations for Contemporary Indigenous Peoples
FNST 216-3	Issues in Internal Relations for Contemporary Indigenous Peoples
FNST 302-3	First Nations Health and Healing
FNST 303-3	First Nations Religions and Philosophy

Ecology Stream

BIOL 101-4	Introductory Biology I
BIOL 102-4	Introductory Biology II
BIOL 201-3	Ecology
ENVS 201-3	Introduction to Atmospheric Science
or NREM 204-3	Introduction to Wildlife and Fisheries

Chemistry Stream

MATH 115-3	Precalculus
	or MATH alternative
CHEM 100-3	General Chemistry I
	and/or CHEM 120-0.5 General Chemistry Lab I
CHEM 101-3	General Chemistry II
	and/or CHEM 121-0.5 General Chemistry Lab II
ENVS 201-3	Introduction to Atmospheric Science
	or Options

Non-Science Major Stream

CORE 104-3	Life Sciences
NREM 100-2	Natural Resource Management I
	or NREM 101-2 Natural Resource Management II
NREM 210-4	Integrated Resources Management
	Option (except ENVS 201-2)

Physics Stream

MATH 115-4	Precalculus
	or MATH alternative
PHYS 115-4	General Introduction to Physics
PHYS 100-4	Introduction to Physics I
	or PHYS 110-4 Introduction to Physics I: Mechanics
PHYS 101-4	Introduction to Physics II
	or PHYS 111-4 Introduction Physics II: Waves and Electricity

Optional Courses

COMM 100-3	Introduction to Canadian Business
ENVS 100-3	Environments and People
ENVS 104-3	Introduction to Planning
ENVS 201-3	Introduction to Atmospheric Science
GEOG 200-3	Geography of British Columbia

Programs

■ Co-operative Education

The Co-operative Education program is based on the principle of integrating a student's academic program with practical work experiences. This normally is achieved through an alternating sequence of four month work and study semesters. This 'hands-on' approach to education extends the learning process beyond the limits of the classroom and into the working world.

The Co-op Education program holds many advantages for students, employers and the University. For example, Co-op students are likely to attain higher levels of satisfaction regarding their education, and have a much higher probability of securing relevant permanent employment immediately after graduation. Employers benefit from hiring bright, capable, highly motivated students who can fill temporary job openings, complete projects, free permanent staff for other tasks, ease the load during a busy season, and potentially fill permanent positions after graduation.

Necessary arrangements for integrating work semesters, securing potential employers, arranging interviews, and generally managing the employment process are the responsibilities of the Office of Co-op Education. The number of jobs available for Co-op students will vary from semester to semester. Because of this, students cannot be guaranteed Co-op positions.

Admission to the Program

Co-operative education information sessions will be held during the first month of classes. Students planning to enter the Co-op program should attend these sessions and contact the Co-op office as early as possible.

Transfer students should complete a study semester before going on a work semester. Students are required to successfully complete four work semesters. Those students transferring from an approved Co-op program elsewhere who have successfully completed a work semester, may be exempt from the first work semester of the UNBC program. Students who complete four work terms will receive a Co-op designation on their degree.

Students may go on their work semesters in either the Fall, Winter or Summer Semesters. Not all work semesters may be done during the Summer Semester. Work semesters must normally alternate with study semesters.

Entrance to the Co-op program is based on academic performance and satisfactory entry interviews. A student may apply to Co-op after completing at least one study semester at UNBC. A student must normally have a minimum cumulative grade point average of 2.75 to enter



and continue in Co-op as well as the completion of 30 credit hours before beginning the first work semester.

The Co-op Process

Once a student is accepted to the Co-op program, he or she has the opportunity of applying for positions with employers. Students are able to choose appropriate employers from posted job descriptions. The interview system is designed to provide maximum freedom for both employers and students.

Student's résumés and transcripts are sent to employers who choose a number of student applicants to interview. After the interviews are completed, employers prepare a list, in order of preference, of students who are acceptable for the job. Co-op students are expected to be flexible and responsive to appropriate work opportunities throughout BC and elsewhere.

UNBC has incorporated Co-operative Education into the following academic programs:

- Anthropology
- Biology
 - Fisheries
 - Plant Sciences
 - Wildlife
- Business Administration
 - Accounting
 - Finance
 - General Business
 - International
 - Marketing
- Chemistry
- Computer Science
- Economics
- English
- Environmental Studies
- Environmental Science
- First Nations Studies
- Geography
- History
- International Studies
- Mathematics
- Natural Resources Management
 - Fisheries
 - Forestry
 - Resource Recreation
 - Wildlife
- Northern Studies
- Physics
- Political Science
- Psychology
- Resource-Based Tourism
- Women's Studies

Course descriptions for the Co-op option can be found beginning on page 112 of the Calendar.

■ The Internship Program

The Internship program is for those students who wish to have some practical work experience but who are unable to pursue the requirements of the Co-op program.

This program differs from the Co-op program in that it is more academically intensive and is for one semester rather than four. Specifically, the Internship courses will be one semester in length (four months) and will be for course credit rather than a paid employment experience. The employer, student and faculty supervisor will together agree on a term assignment. The student will be responsible for completing this assignment and defending it at the end of the term to the employer and faculty member.

Please note: the Internship program is completely separate from the practica found in such programs as Nursing, Social Work and Education.

■ Northern Advancement Program

Introduction

The Office of First Nations programs, in keeping with its mandate to serve the native student population, offers a transition year of study in September of each year to students who would like to attend the University of Northern British Columbia. The program of study is important and relevant to students from both smaller rural communities and/or First Nations communities.

The University is situated in the territories of 78 Bands and 16 Tribal Councils as well as many urban First Nations

organizations. The population of the region is about 300,000 of which First Nations people comprise approximately 10 percent.

The Office of First Nations programs does not restrict services to First Nations students. All programs and studies offered through the First Nations Centre are open to all UNBC students—native and non-native alike.

Students from smaller rural communities and First Nations students traditionally have had the most difficulty in adjusting to university in a larger centre because of cultural and sociological differences. The program is aimed at providing these students with assistance in making the transition to university. It will allow students to take full advantage of the educational opportunities offered, and prepare them for subsequent employment. The program will also ensure that a higher percentage of students will successfully complete their degrees as a result of their adjustment to, and enjoyment of, university life in a larger centre.

Program Description

The Northern Advancement program has been developed utilizing existing UNBC programs in the First Nations Centre in addition to the courses, Arts 101-3 (Learning Strategies) and Arts 102-3 (Research Writing). These new courses will provide a foundation for further study in a variety of fields at UNBC. The cornerstone of the Northern Advancement program is Arts 101 and 102. The First Nations Centre programs have an emphasis on support services for students from smaller rural and First Nations communities.

Arts 101 and 102 will provide an effective bridge for students entering UNBC. The transition and study skills component will begin two weeks prior to the start of classes and students will be required to attend a detailed orientation to the University. The courses will continue throughout the critical first year with students receiving instruction in developing skills in the following areas:

- library skills
- research skills
- text reading skills
- writing skills
- study skills
- public speaking
- group development
- stress management
- note taking skills
- assertiveness training
- career planning and
- test taking skills

In addition, since First Nations philosophy is one that is based on holistic learning, emphasis will be placed on developing support networks for personal growth as well as helping students in the program deal with personal issues that impede their academic success.

PROGRAMS: NORTHERN ADVANCEMENT

The delivery of Arts 101 and 102 will be supported by the First Nations Centre. These include the assistance of First Nations community elders for cultural programming and personal guidance. In addition to elders, existing UNBC staff and faculty will be utilized to deliver specific components and courses of the program. A program co-ordinator from the Office of First Nations programs will co-ordinate the program, teach skill level sessions, and assist in community liaison and student recruitment.

Program Objectives

The program will provide a foundation for further study in a variety of fields at the University of Northern British Columbia. The cornerstone of the program is the emphasis on support services for First Nations students and students from smaller rural communities.

The objectives of this program are:

- to provide an orientation to university facilities and admission procedures
- to provide a supportive learning environment that facilitates the transition into university life
- to provide cultural activities which build self-esteem and respect for First Nations traditions and cultural values

Admission Requirements

Students will be required to complete a regular UNBC Admission Application form and indicate the Northern Advancement program as their academic intention.

Applicants must meet regular UNBC admission standards.

Each mature student application will be reviewed on its own merits. Mature applicants must:

- be permanent residents of British Columbia
- have been out of secondary school for at least three years and
- be at least 21 years of age on or before the first day of classes

Application Process

Admission to the program will be a time-consuming process. Students are encouraged to begin admission inquiries as soon as possible in the new calendar year.

The deadline for submission of applications, complete with all required documentation, for September registration is mid July. Complete files will be given first preference for acceptance into the program. As spaces available in the program are limited, not all students who are eligible will be admitted.

To be considered for the Northern Advancement program, students must also submit the following with their application form:

- one official transcript from high school and all post-secondary institutions (photocopies or facsimiles are not accepted as official)
- a letter of intent outlining their career goals and the importance of the Northern Advancement program in achieving those goals
- a letter of support from a high school teacher and/or band administrator, education co-ordinator or sponsoring organization

Where applicable, a statement regarding funding arrangements is also required and must be forwarded to the Co-ordinator of the Northern Advancement program.

Once admitted to UNBC:

- students should contact the Office of First Nations programs to arrange a pre-admission interview to review their academic history and the appropriateness of the Northern Advancement program in achieving their educational goals. A transcript or progress report will be required at this point.
- students are required to attend a two-week orientation session prior to the first day of classes. Course timetables will be provided during orientation week.

Course Requirements

Normally this is a maximum five year UNBC credit program (some students may choose to complete the degree in four years). The program is designed to facilitate 25 students per year. Students will have the following options in their first year as determined by the degree program in the prospective Faculties the student chooses.

Northern Advancement program students must complete 12 credit hours in each of their first and second semesters as follows:

Semester One

ARTS 101-3 Learning Strategies
CORE 101-3* Humanities or
CORE 102-3** Physical Sciences
Elective (three credit hours)***
Elective (three credit hours)

Semester Two

ARTS 102-3 Research Writing
CORE 103-3* Social Sciences or
CORE 104-3** Life Sciences
Elective (three credit hours)***
Elective (three credit hours)

*or Core courses as determined by the degree programs in:

Biology
Chemistry
Computer Science
Environmental Planning

Environmental Science
 Geography
 Mathematics
 Natural Resources Management
 Physics
 Psychology
 Resource Recreation and Tourism

NREM 210-3 Integrated Resource Management
 PHYS 115-4 General Introduction to Physics
 PSYC 101-3 Psychology as a Science

Note: Courses used toward major program requirements or minor requirements can be used to fulfill core requirements. Students must take an additional three credit hours of electives if they use a Core alternate for both Core and major requirements.

**or Core courses as determined by the degree programs in:

Anthropology
 Business Administration
 Economics
 English
 Environmental Studies
 First Nations Studies
 Geography
 History
 International Studies
 Political Science
 Social Work
 Women's Studies

***three credit hours of work outside their anticipated major and selected from an approved list of UNBC courses.

Science Programs

Biology, BSc General, Chemistry, Computer Science, Environmental Science, Environmental Planning, Geography (BSc), Mathematics, Natural Resources Management, Physics, and Psychology majors must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 101-3 Humanities and
 CORE 103-3 Social Sciences
- OR**
- CORE 101-3 Humanities or
 CORE 103-3 Social Sciences and
 three credit hours of course work selected from the following courses or their equivalent:

ANTH 101-3 Linguistic and Sociocultural Approaches
 ECON 100-3 Microeconomics
 ECON 101-3 Macroeconomics
 ENGL 100-3 Introduction to Literary Structures
 ENGL 202-3 Genre
 ENGL 203-3 Fiction I
 ENGL 204-3 Fiction II
 ENVS 203-3 Environmental Policy
 FNST 215-3 Issues in External Relations for Contemporary Indigenous Peoples
 GEOG 201-3 Human Geography
 HIST 100-3 Headlines in History
 INTS 101-3 Canada and the World
 NREM 303-3 First Nations' Approach to Resource Management
 POLS 100-3 Contemporary Political Issues
 WMST 100-3 Introduction to Women's Studies

Note: Courses used toward major program requirements or minor requirements can be used to fulfill core requirements. Students must take an additional three credit hours of electives if they use a Core alternate for both Core and major requirements.

The University of Northern British Columbia will allow UNBC students studying in regional centres to complete the Core course requirements by substituting discipline based courses (as is currently permitted for college students transferring to the University of Northern British Columbia) until such time as the Core courses are available in the regional centres.

Core Courses

Core course requirements can only be waived by the College Dean.

Arts and Humanities Programs

Anthropology, BA General, Business Administration, Economics, English, Environmental Studies, First Nations Studies, Geography (BA), History, International Studies, Political Science, Resource-Based Tourism, Social Work, and Women's Studies majors must complete six credit hours from the following (students admitted to UNBC with 45 or more transfer credit hours are exempt from this requirement):

- CORE 102-3 Physical Sciences and
 CORE 104-3 Life Sciences
 - OR**
 - CORE 102-3 Physical Sciences or
 CORE 104-3 Life Sciences and
 three credit hours of course work selected from the following courses or their equivalent:
- ANTH 100-3 Archaeological and Biological Approaches
 CHEM 110-3 Chemistry of Everyday Life
 CPSC 100-4 Computer Programming I
 GEOG 100-3 Environments and People
 or ENVS 100-3 Environments and People
 MATH 100-3 Calculus I
 or MATH 152-3 Calculus for Non-majors

■ Student Success Initiative

This initiative involves the development of a new undergraduate course that is specifically designed to assist students to quickly learn the academic skills and strategies that are necessary to successfully complete their first year of study at a university and to improve their academic performance in each subsequent year of university. The new course is University 101-3 (Introduction to Higher Education). It is a three-credit, multidisciplinary elective that is an appropriate foundation course for most university degree programs. It offers an introduction to the university and its many services, an explanation of the methods of academic inquiry employed in the various disciplines, and an opportunity to learn and practise the study skills and learning strategies that are required for academic success. Students will be given opportunities to use the information from this course to improve their academic performance in the other courses they are studying.

University 101-3 is most appropriate for students who are in their first year of study at a university, including those who have transferred from regional colleges. It is also appropriate for mature students who have been away from academic study for a period of time. For additional information, see the description of the course that is located in the course description section of the Calendar under the title, UNIV 101-3.



Course Descriptions

Course Abbreviations Listed Alphabetically

Course Code	Courses
ANTH	Anthropology
ARTS	Arts
BIOL	Biology
CHEM	Chemistry
COMM	Commerce/Business Administration
CPSC	Computer Science
CORE	Core
ECON	Economics
ENGL	English
ENVS	Environmental Studies
FNST	First Nations Studies
FSTY	Forestry
GEOG	Geography
HHSC	Community Health
HIST	History
INTS	International Studies
INTX	International Exchange
MATH	Mathematics
NORS	Northern Studies
NREM	Natural Resources Management
NRES	Natural Resources and Environmental Studies
NURS	Nursing
PHIL	Philosophy
PHYS	Physics
POLS	Political Science
PSYC	Psychology
RRT	Resource Recreation and Tourism
SOCW	Social Work
WMST	Women's Studies

Upper Division and Graduate Level Courses

Credit is not granted for both 400 and 600 level courses having the same title, unless otherwise specified in the course description.

Prerequisites

A prerequisite course is an academic requirement that must be completed prior to the student taking a course. Prerequisites are used to ensure that a student has the required background to successfully complete the course. Prerequisites may also have prerequisites. These prerequisites must also be fulfilled.

For example: COMM 314-3 has a prerequisite of COMM 313-3, COMM 313-3 has a prerequisite of COMM 210-3, and COMM 210-3 has a pre- or co-requisite of COMM 100-3. In this case, a student must have credit for COMM 313-3, COMM 210-3, and COMM 100-3 before being eligible to enrol in COMM 314-3.

Course Offerings

Not all courses are offered every year. Check the *Registration Guide* for a list of the courses being offered in each semester.

Course Descriptions

The following explanation will help clarify the terms found in the course descriptions. For definitions of terms used throughout the Calendar, refer to the *Glossary*.

BIOL 411-3 Conservation Biology Ecological and genetic considerations for the maintenance of biological diversity and the practical applications to the management of natural resources.

Prerequisites: BIOL 210-3

Precluded: BIOL 601-3

Course Number — indicates discipline and level of study (100 for preparatory; 200 for junior, 300-499 for senior, 500 for honours level courses).

Credit Value

Course Title

Course Description

Prerequisites/Co-requisites — are requirements needed before or concurrent with a student's registration in the course. This section may also contain recommendations that will help students understand the course materials better.

Precluded Courses — Students cannot receive credit for both the course being described and the course listed in this section.

■ Anthropology

ANTH 100-3 Archaeological and Biological Approaches

Introduction to the study of the biological basis of our humanity, the range of cultural adaptations represented by human societies in the archaeological record, and the means and techniques by which these are investigated.

Prerequisites: none

ANTH 101-3 Linguistic and Sociocultural Approaches

Examines the diversity of human cultures and languages through the comparison of contemporary societies, patterns of social organization, and the categories of linguistic theory.

Prerequisites: none

ANTH 200-3 Biological Anthropology A survey of the origins and evolution of human population diversity. Topics covered include an introduction to evolutionary and population genetic theory; trends and debates in human evolution; principles of human growth, development and aging; and polymorphism, polytypism and biocultural adaptation in human populations.

Prerequisites: none

Recommended: ANTH 100-3

ANTH 201-3 Medical Anthropology Understandings of wellness in various cultural systems studied through the classification of health and illness categories, and the range of approaches to maintaining and intervening in health processes.

Prerequisites: none

Recommended: ANTH 100-3 or 101-3

ANTH 202-3 Archaeology in Northern British Columbia

A survey of the archaeological record of the northern part of the province and the techniques by which it is studied.

Prerequisites: none

Recommended: ANTH 100-3

ANTH 203-3 Archaeology of the Americas A survey of the archaeological record of prehistoric human occupation of North, Central and South America. Issues such as peopling of the New World, paleo-Indian adaptations, origins of agriculture, the expansion and contraction of interaction spheres, and the consequences of contact will be considered from a regional and continental perspective.

Prerequisites: none

Recommended: ANTH 100-3

ANTH 204-3 Ethnolinguistics and Ethnoscience in Northern British Columbia

An introduction to the cultural patterning of language and the study of comparative classification systems, with examples from northern British Columbia. Students will participate in elicitation and

analysis of information with speakers of one or more languages other than English and will develop skills in lexical, semantic and discourse analysis.

Prerequisites: none

Recommended: ANTH 101-3

ANTH 206-3 Ethnography in Northern British Columbia

A survey of the ethnographic literature for this region, and an introduction to the methodology of ethnographic research.

Prerequisites: none

Recommended: ANTH 101-3

ANTH 208-3 Anthropology of the Circumpolar North

A survey of the archaeological and ethnographic literature on the north, with a focus on a selected culture.

Prerequisites: none

Recommended: ANTH 101-3

ANTH 209-3 Ethnography of a Pacific Rim Society

A study of one of the Pacific Rim societies and the research tools by which we learn about this area.

Prerequisites: none

Recommended: ANTH 101-3

ANTH 210-3 Seminar in Anthropology: Understanding Theory

An integrative project-based course in which students will work in teams to examine a range of anthropological writings to identify the theoretical positions and assumptions involved. Examples will be selected from the cultures of the circumpolar north, the Pacific Rim, and other selected indigenous groups.

Prerequisites: ANTH 100-3 or 101-3, or permission of the Program Chair

ANTH 220-3 Introduction to Primatology A survey of major issues in contemporary primatology, including origins and evolution, taxonomy, socioecology, mating systems, dominance, co-operative and coercive structures, intelligence and conservation.

Prerequisites: ANTH 100-3

ANTH 300-3 Anthropological Methods Research design, data collection, statistics and analysis as used in anthropology. Students will use computers for recording and manipulating data and writing reports.

Prerequisites: ANTH 210-3

ANTH 301-3 Field Excavation and Laboratory Analysis in Archaeology

Students will participate in excavation and in the classification and analysis of artifacts in the laboratory.

Prerequisites: ANTH 202-3

ANTH 302-3 New Directions in Contemporary Archaeology This course will examine trends in modern archaeological research and discourse. Topics covered may vary for each offering, but might include heritage resource management, archaeological consulting, archaeology and indigenous peoples, avocational archaeology, archaeology and the public, and archaeology and museums, among others. The aim of this course is to illustrate how archaeology, as an academic discipline entering the 21st century, achieves its primary function of interpreting the past in a socially responsible and meaningful way.

Prerequisites: ANTH 202-3 or 203-3, or permission of the instructor

ANTH 303-3 Archives, Texts, Museums, and Contemporary Communities Students will engage in projects in which they combine the use of archival, textual, museum and interview methodologies.

Prerequisites: upper division standing or permission of the instructor

ANTH 307-3 Feminist Perspectives in Anthropology Critical analysis of gender, division of labour, power and nature, and the treatment of these in anthropological thought.

Prerequisites: upper division standing or permission of Program Chair

ANTH 308-3 Maritime Adaptations A seminar in which selected cultures will be surveyed and compared and the features which mark maritime adaptations will be identified.

Prerequisites: none
Recommended: ANTH 101-3

ANTH 309-3 Anthropological Perspectives on Inequality An examination of the embedding of inequality in cultural systems, and the intersection of categories such as race, class and gender in systems of hegemony; examples will be selected from a variety of cultural contexts.

Prerequisites: upper division standing or permission of the Program Chair

ANTH 310-3 Seminar in Anthropology: Theory in Practice Students will work in teams to design and implement a study using several approaches, and will identify and critique the theoretical and methodological assumptions of each approach.

Prerequisites: ANTH 210-3

ANTH 311-3 Nutritional Anthropology A biocultural examination of the relationship between food (e.g., acquisition/avoidance; distribution, preparation), human health, and society in past and present populations. Also discussed will be aspects of research methodology (anthropometry, work performance, dietetics, etc.).

Prerequisites: ANTH 200-3 or 201-3 or permission of the instructor

ANTH 312-3 Human Adaptability This course will examine the genetic, epigenetic, and behavioural/cultural avenues used by humankind in adapting to environmental stresses associated with extreme habitats, (e.g., cold, heat, hypoxia). Human (mal-) adaption to post-industrial revolution urban conditions (e.g., crowding, noise, pollution) will also be addressed.

Prerequisites: ANTH 200-3 or permission of the instructor

ANTH 314-3 Development and Change in Contemporary Canadian Society This course will consider the basic social, political and economic dynamics of development and change in modern Canadian society. Special attention will be given to such issues as: social stratification, class and gender, ethnic conflict, political ideology, regional inequities and dependencies, foreign ownership and Canadian multinationals, the environmental movement, the Canadian welfare state and global economic trends.

Prerequisites: ANTH 101-3
Recommended: ANTH 210-3

ANTH 316-3 The Social Theory and Structure of Contemporary Canadian Society A consideration of basic themes, theories and concepts in advanced social thought as they relate to modern Canadian industrial society. Theories to be reviewed will include: functionalism, conflict theory, exchange theory and interactionist theory. These will be reviewed in relation to key issues impacting modern Canadian industrial societies, including: social inequality, ethnic and gender relations, the family, political and economic organization, work and occupations, community and region, the environment and utilization of natural resources, and social movements and social change.

Prerequisites: ANTH 101-3
Recommended: ANTH 210-3

ANTH 320-3 Biology of Circumpolar Peoples A lecture/seminar course exploring biological variability in contemporary circumpolar peoples, notably growth and development, morphology (size, shape and body composition) and physiology, within a framework of evolutionary ecology. Also addressed will be effects of culture change on, e.g., work capacity, nutritional adaptation, demography, and morbidity.

Prerequisites: ANTH 200-3

ANTH 400-3 Contemporary Theories and Critiques A systematic survey and critique of the major approaches used in the discipline, with an emphasis on post-structuralist and feminist perspectives.

Prerequisites: ANTH 310-3

ANTH 402-3 Culture and Communication An examination of the literature on cross-cultural communication, cultural translation and genres in the discipline.

Prerequisites: ANTH 210-3 or permission of the instructor

COURSE DESCRIPTIONS: ANTHROPOLOGY

ANTH 404-3 Comparative Study of Indigenous Peoples of the World A project-based seminar in which students will examine the similarities and differences of selected groups, focusing on issues such as relations with state societies, etc.

Prerequisites: upper division standing

Recommended: prior course(s) in sociocultural anthropology

ANTH 407-3 Topics in British Columbia Ethnography An examination and comparison of selected aspects of the cultures of several groups.

Prerequisites: upper division standing

Recommended: prior course(s) in sociocultural anthropology

ANTH 408-3 Kinship and Social Organization A review of the literature on kinship and social organization, and an examination of selected cases from various societies.

Prerequisites: upper division standing

Recommended: prior course(s) in sociocultural anthropology

ANTH 409-3 Topics in British Columbia Archaeology A problem-based seminar in which selected issues will be examined from several points of view.

Prerequisites: any prior archaeology course or permission of instructor

ANTH 411-3 Topics in Biological Anthropology A problem-oriented and project-based seminar in which one (or more) selected topics in biological anthropology will be examined.

ANTH 412-3 Popular Culture The study of contemporary cultural phenomena with anthropological methods.

Prerequisites: upper division standing

Recommended: prior course(s) in sociocultural anthropology

ANTH 413-3 Topics in Environmental Anthropology An examination of the literature on cultural ecology and indigenous environmental practices.

Prerequisites: upper division standing

Recommended: prior course(s) in anthropology

ANTH 414-3 Anthropology of Religion and Cultural Epistemology A review of anthropological approaches to religion and cultural epistemology with comparative examples from several cultures.

Prerequisites: upper division standing

Recommended: prior course(s) in sociocultural anthropology

ANTH 416-6 Archaeological Field Methods The study and actualization of field methods in archaeology, including survey, mapping, and excavation techniques. The course

consists of two weeks of classroom instruction, six weeks of fieldwork in northern BC and three weeks of lab work.

Prerequisites: permission of Program Chair

Co-requisites: ANTH 417-(3-6) and 418-3

ANTH 417-(3-6) Archaeological Research Project In consultation with the course instructor, students will undertake the design, implementation and analysis of a major research project arising from fieldwork experience.

Note: When taken as part of package (ANTH 416, 417 and 418), ANTH 417 carries six credits; if taken outside of the package, ANTH 417 carries three credits.

Prerequisites: permission of Program Chair

Co-requisites: ANTH 416-6 and 418-3

ANTH 418-3 Archaeology and First Nations Introduces students to the value of ethnographic information (including oral history, place names documentation, traditional technology, subsistence, and traditional use activities), the interpretation of archaeological data and construction of First Nations (pre)history.

Prerequisites: permission of Program Chair

Co-requisites: ANTH 416-6 and 417-(3-6)

ANTH 420-3 Races, Racism, and Human Biology This seminar course investigates the biological basis of human diversity and difference. It deals with the origin and mechanisms of human population variation, the nature of racial and racist studies in both historical and social context, and the question of race as a valid subject of scientific inquiry.

Prerequisites: ANTH 100-3 or permission of the instructor

ANTH 440-(3-6) Internship

Prerequisites: upper division standing and permission of the Program Chair

ANTH 450-(3-6) Undergraduate Thesis in Anthropology

Prerequisites: upper division standing and permission of the Program Chair

ANTH 451-3 Traditional Use Studies An advanced seminar on traditional use studies, their use, application, and development. The seminar will examine the origins and development of this field, review case studies and recent applications, and contemporary policies.

Prerequisites: ANTH 101-3 or FNST 100-3 or permission of instructor

Precluded: ANTH 651-3, FNST 451-3, FNST 651-3

ANTH 498-(3-6) Special Topics in Anthropology

Prerequisites: upper division standing and permission of the Program Chair

ANTH 499-(3-6) Independent Study

Prerequisites: upper division standing and permission of the Program Chair

■ **Arts**

Northern Advancement program students are required to take these courses and so have priority for registration. Any spaces remaining may be filled by other students.

ARTS 101-3 Learning Strategies This course helps students identify their strengths and weaknesses as learners, master essential academic learning strategies, identify appropriate career goals and majors, and make a successful transition to university.

Prerequisites: none

Precluded: CORE 100-3, NRES 100-3

ARTS 102-3 Research Writing This course is the second half of a comprehensive study in University Study Skills that will focus primarily on skills associated with effective research writing techniques. In addition, the course will also focus on the knowledge and skills necessary for the productions of university level, library based research papers. Using the library, mastering computers, reviewing grammar, and presenting findings orally will be integral components of the process.

Prerequisites: none

Precluded: CORE 100-3, NRES 100-3

ARTS 110-3 Musical Appreciation A survey of “art” music, building an appreciation of the development of music from mediaeval times to the present, emphasizing the relation of musical works to their historical and social origins.

Prerequisites: none

■ **Biology**

BIOL 101-4 Introductory Biology I An introduction to the biological sciences including nature of life, cell structure, function, development, metabolism and genetics. BIOL 101-4 and BIOL 102-4 are equivalent to BIOL 100-4 prior to Fall 2000.

Prerequisites: Biology 11

BIOL 102-4 Introductory Biology II An introduction to evolutionary theory, survey of living organisms, plant and animal form and function, ecology and population biology. BIOL 101-4 and BIOL 102-4 are equivalent to BIOL 100-4 prior to Fall 2000.

Prerequisites: BIOL 101-4

BIOL 201-3 Ecology The relationship of the environment to organisms, principles of animal and plant ecology, populations, communities, ecosystems and human ecology.

Prerequisites: BIOL 102-4

BIOL 202-3 Invertebrate Zoology Systematics, development and evolution of the invertebrates.

Prerequisites: BIOL 102-4

BIOL 203-3 Microbiology Classification and biology of prokaryotic and eukaryotic micro-organisms. Techniques for culture and applications to forestry, agriculture, medicine and industry.

Prerequisites: BIOL 102-4

Co-requisites: CHEM 204-3 or CHEM 220-3

BIOL 204-3 Plant Biology The interrelationships between form and function of the living plant, including systematics, development, physiology and evolution.

Prerequisites: BIOL 102-4

BIOL 210-3 Genetics Principles of modern and classical genetics.

Prerequisites: BIOL 102-4

BIOL 301-3 Systematic Botany The ecology and evolution of plants. Particular reference is made to plants of British Columbia.

Prerequisites: BIOL 102-4

BIOL 302-3 Limnology Ecology of aquatic systems, their chemical, physical and biological characteristics.

Prerequisites: BIOL 201-3

COURSE DESCRIPTIONS: BIOLOGY

BIOL 303-3 Plant Physiology Water and energy relations, evapotranspiration, mineral nutrition, membrane transport, growth, development and stress in plants.

Prerequisites: BIOL 204-3 or permission of the instructor

BIOL 305-3 Plant Morphology and Anatomy Form and structure of vascular and non-vascular plants. Analysis of the relationship between structure, form and function in the context of plant evolution and adaptation.

Prerequisites: BIOL 204-3

BIOL 307-3 Ichthyology and Herpetology The identification, comparative anatomy and evolution of fishes, amphibians and reptiles. Particular reference is made to species endemic to British Columbia.

Prerequisites: BIOL 102-4

BIOL 308-3 Ornithology and Mammalogy The identification, comparative anatomy and evolution of birds and mammals. Particular reference is made to species endemic to British Columbia.

Prerequisites: BIOL 102-4

BIOL 311-3 Cell and Molecular Biology Cellular structure and function, genome organization, and gene regulation in eukaryotic and prokaryotic organisms.

Prerequisites: BIOL 210-3

BIOL 315-3 Animal Diseases and Parasites Biological aspects of infectious diseases, parasites and environmental contaminants in wild vertebrate animal populations.

Prerequisites: one of BIOL 307-3 or 308-3

BIOL 321-3 Animal Physiology Basic animal functions and physiology. Operation and integration of major life support and reproductive systems, with emphasis on vertebrates.

Prerequisites: one of BIOL 307-3 or 308-3

BIOL 322-3 Entomology Diversity, structure, function, evolution, behaviour and importance of insects. Students intending to take the course should contact the instructor as early as possible for information and materials regarding the required insect collection.

Prerequisites: BIOL 202-3 or FSTY 307-4 or permission of the instructor

Precluded: BIOL 422-3

BIOL 333-3 Field Camp Two week field course to be taken between semester six and seven or after semester eight. Field applications in integrated resource management. Open to biology majors.

Prerequisites: permission of the instructor

Precluded: FSTY 333-3 and RRT 333-3

BIOL 350-3 Ethnobotany Native uses of indigenous plants.

Prerequisites: none

BIOL 401-3 Plant - Microbial Interactions Parasitic diseases and mutualistic associations of plants, especially forest trees. Emphasis will be placed on the ecology and phylogeny of fungal plant pathogens and mycorrhizal symbionts, and the physiology of plant-microbe interactions.

Prerequisites: BIOL 203-3 or permission of the instructor

Precluded: BIOL 631-3

BIOL 402-3 Aquatic Plants Classification, physiology, ecology, and environmental implications of aquatic plants. Both marine and freshwater systems are covered with emphasis on the aquatic plants of British Columbia.

Prerequisites: BIOL 204-3 or permission of the instructor

Precluded: BIOL 632-3

BIOL 403-3 Evolutionary Biology Mechanisms and processes of evolution of biological organisms. Discussion of evolutionary principles from Darwinism to molecular evolution.

Prerequisites: BIOL 201-3 and 210-3 or permission of the instructor

Precluded: BIOL 633-3

BIOL 404-3 Plant Ecology Principles of ecology as they relate to plants. Structure, classification and analysis techniques, and the dynamic behaviour of plant communities.

Prerequisites: BIOL 201-3 or 204-3

BIOL 406-3 Fish Ecology The general life history, ecology, zoogeography and habitats of freshwater, anadromous and marine fishes.

Prerequisites: BIOL 201-3 and 307-3

Precluded: BIOL 606-3

BIOL 410-3 Population and Community Ecology

Population and community ecology including theoretical and applied aspects of structure and dynamics.

Prerequisites: BIOL 201-3 and MATH 342-3 or equivalent

Precluded: BIOL 603-3

BIOL 411-3 Conservation Biology Ecological and genetic considerations for the maintenance of biological diversity and the practical applications to the management of natural resources.

Prerequisites: BIOL 210-3

Precluded: BIOL 601-3

BIOL 412-3 Wildlife Ecology The general ecology and biology of wildlife species, including physiology, behaviour, nutrition and endocrinology.

Prerequisites: BIOL 201-3 and 308-3

Precluded: BIOL 604-3

BIOL 413-3 Wildlife Management Management criteria for reptiles, amphibians, birds and mammals. Emphasis on the socio-economic aspects of management. Communication processes are addressed.

Prerequisites: BIOL 410-3, 412-3 and NREM 204-3

Precluded: BIOL 605-3

BIOL 414-3 Fisheries Management Management of freshwater and anadromous fishes of British Columbia.

Prerequisites: BIOL 406-3 and NREM 204-3

Precluded: BIOL 602-3

BIOL 420-3 Animal Behaviour Adaptive significance and evolutionary basis of behaviour patterns exhibited by the major animal phyla.

Prerequisites: one of BIOL 202-3, 307-3, or 308-3

BIOL 421-3 Insects, Fungi and Society The historical, social and economic importance of insects and fungi to human society, including underlying biological and ecological principles.

Prerequisites: 60 credit hours which includes BIOL 102-4, or permission of the instructor

Precluded: BIOL 611-3

BIOL 425-3 Applied Genetics and Biotechnology

Introduction to advanced genetic laboratory techniques and processes. Lectures will cover applications of genetic techniques and biotechnology as well as ethics issues regarding the use of these technologies. Specific topics will include: animal forensics, recombinant and transgenic theory, quantitative/molecular genetics, biotechnology and molecular ecology.

Prerequisites: BIOL 311-3. Note that BIOL 210-3 is a prerequisite for BIOL 311-3

Precluded: BIOL 625-3

BIOL 430-(3-6) Undergraduate Thesis Students must have completed at least 90 credit hours of study and be a Biology major. The thesis may be taken in one or two semesters of the senior year.

BIOL 440-(2-6) Internship May be repeated for credit (maximum six credit hours).

BIOL 499-(1-6) Independent Study May be repeated for credit (maximum six credit hours).

■ Chemistry

CHEM 100-3 General Chemistry I The first course in a two-course lecture-based sequence of chemistry courses emphasizing the basic principles of chemistry. Topics include: classification of matter, periodic properties of elements, atomic and molecular structure, stoichiometry, chemical reactions, thermochemistry, chemical bonding and an introduction to organic chemistry. Students requiring the first year laboratory courses in their program of study are encouraged to enrol in CHEM 120-0.5 concurrently.

Prerequisites: Principles of Math 12 or MATH 115-3 (or equivalent). Note: MATH 115-3 may be taken concurrently.

CHEM 101-3 General Chemistry II The second course in a two-course lecture-based sequence of chemistry courses emphasizing the basic principles of chemistry. Topics include: intermolecular forces, properties of solutions, reaction kinetics, chemical equilibrium, acids and bases, applications of aqueous equilibria, entropy and free energy, and electrochemistry. Students requiring the first year laboratory courses in their program of study are encouraged to enrol in CHEM 121-0.5 concurrently.

Prerequisites: CHEM 100-3, Principles of Math 12 or MATH 115-3 (or equivalent)

CHEM 110-3 Chemistry of Everyday Life A lecture based chemistry course for non-science majors which presents the chemistry of substances of our everyday world and discusses real-world societal issues that have important chemistry components. Environmentally relevant topics including the ozone layer and its depletion, global warming, and acid rain will be studied. The use of energy in our society in its various forms will be looked at from a chemical perspective. The importance and implications of using man made materials and drugs will be discussed. A discussion of these topics will give students a fundamental background in chemistry, and allow them to better understand issues of relevance to our modern industrial society.

Prerequisites: none

CHEM 120-0.5 General Chemistry Lab I A laboratory half-course designed to accompany CHEM 100-3 and introduce basic chemistry laboratory procedures. Experiments will be performed which complement the material presented in CHEM 100-3.

Prerequisites: CHEM 100-3 (may be taken concurrently)

CHEM 121-0.5 General Chemistry Lab II A laboratory half-course designed to accompany CHEM 101-3 and introduce basic chemistry laboratory procedures. Experiments will be performed which complement the material presented in CHEM 101-3.

Prerequisites: CHEM 120-0.5, 101-3 (may be taken concurrently)

COURSE DESCRIPTIONS: CHEMISTRY

CHEM 200-3 Physical Chemistry I Fundamental concepts of classical thermodynamics, thermochemistry, chemical and phase equilibria.

Prerequisites: CHEM 101-3, 121-0.5, MATH 101-3 or permission of instructor

CHEM 201-3 Organic Chemistry I A lecture based course providing an introduction to the structure, nomenclature, classification, properties and reactions of the major functional groups of organic compounds. Examples of the syntheses and the reactions of the major functional groups will be given, supported by reaction mechanisms where appropriate. Students requiring the second year Organic Chemistry laboratory courses in their program of study are encouraged to enrol in CHEM 250-1 concurrently.

Prerequisites: CHEM 101-3, 121-0.5 or permission of instructor

CHEM 202-3 Inorganic Chemistry I An introductory course in inorganic chemistry, focusing on structure and bonding, crystal field and molecular orbital theory and the chemistry of the main group.

Prerequisites: CHEM 101-3, 121-0.5 or permission of the instructor

CHEM 203-3 Organic Chemistry II A continuation of the topics covered in CHEM 201-3, with emphasis on the mechanistic aspect of organic chemical reactions. Students requiring the second year Organic Chemistry laboratory courses in their program of study are encouraged to enrol in CHEM 251-1 concurrently.

Prerequisites: CHEM 201-3

CHEM 204-3 Biochemistry I An overview of biological chemistry, emphasizing the structure, composition and role of proteins, nucleic acids, carbohydrates and lipids in living systems, including primary metabolism.

Prerequisites: CHEM 101-3, 121-0.5, 201-3, BIOL 102-4

CHEM 210-3 Analytical Chemistry I A laboratory course (two hours of lecture and three hours of laboratory per week), designed to introduce the discipline of analytical chemistry. Topics include data handling (basic statistics, use of spreadsheets, graphing techniques), electronic spectroscopy (UV-Vis, fluorescence, AA, ICP) and functional group identification in organic and inorganic molecules (IR spectroscopy)

Prerequisites: CHEM 101-3, 121-0.5

CHEM 220-3 Organic and Biochemistry A lecture based course designed to present an introductory sequence of organic chemistry and biochemistry. An understanding of organic chemistry is required to properly understand biochemistry. This course treats organic chemistry in enough depth to make biochemistry understandable.

Prerequisites: CHEM 101-3

Precluded: CHEM 201-3 and CHEM 203-3 or CHEM 204-3

CHEM 221-1 Organic and Biochemistry Lab A laboratory based course designed to accompany and complement CHEM 220-3. This course will introduce common laboratory techniques as well as introduce some of the properties and reactions of organic and biochemical compounds.

Prerequisites: CHEM 121-0.5

Co-requisites: CHEM 220-3

CHEM 250-1 Organic Chemistry Lab I A laboratory based course providing an introduction to the techniques used in organic chemistry.

Prerequisites: CHEM 201-3 (may be taken concurrently)

CHEM 251-1 Organic Chemistry Lab II A laboratory based course focusing on the practical aspects of organic chemistry.

Prerequisites: CHEM 250-1, 203-3 (may be taken concurrently)

CHEM 300-3 Physical Chemistry II Fundamental concepts in statistical mechanics, reaction theory, chemical kinetics and surface chemistry.

Prerequisites: CHEM 200-3, MATH 101-3

CHEM 301-3 Advanced Organic Chemistry I An advanced course emphasizing the structural, physical and mechanistic aspects of organic reactions.

Prerequisites: CHEM 203-3

CHEM 302-4 Environmental Chemistry I The chemistry of the environment, including considerations of the physical processes in the air, soil and water and the influence, monitoring, and removal of pollutants from the environment.

Prerequisites: CHEM 101-3, 121-0.5. CHEM 200-3 is strongly recommended

CHEM 303-3 Quantum Chemistry Basic quantum mechanics including the origin of quantum theory, atomic models, waves, particles, Schrodinger equations, free and bound states, the hydrogen atom, atomic structure and spectra. Cross-listed with PHYS 302-3. Credit not available for both CHEM 303-3 and PHYS 302-3.

Prerequisites: PHYS 204-4

Co-requisites: MATH 201-3

CHEM 304-3 Advanced Organic Chemistry II An advanced course studying modern methods in synthetic organic chemistry.

Prerequisites: CHEM 203-3

CHEM 305-3 Physical Chemistry III Fundamental concepts of quantum mechanics and spectroscopy.

Prerequisites: CHEM 200-3, MATH 101-3

CHEM 306-3 Biochemistry II A non-laboratory course emphasizing carbon metabolism. Topics include carbohydrates and lipids (and their metabolic products), pathways, pathway regulation, the control of carbon flux through specific metabolic pathways and the biosynthesis and biodegradation of carbon metabolites.

Prerequisites: CHEM 204-3

CHEM 307-3 Biochemistry III A non-laboratory course emphasizing nitrogen metabolism. Topics include the biosynthesis and biodegradation of amino acids, proteins, nucleotides and nucleic acids, protein structure and function, enzymology, DNA replication and nitrogen turnover in biological systems.

Prerequisites: CHEM 204-3

CHEM 308-3 Biochemistry Lab A laboratory based course (one hour lecture, six hour lab per week) exploring modern biochemical and molecular biological laboratory techniques. Topics include protein purification and characterization of nucleic acids. Techniques include centrifugation, chromatography, spectrophotometry, gel electrophoresis, restriction endonuclease digestion and analysis, and DNA sequencing.

Prerequisites: one of CHEM 204-3 or 220-3 and BIOL 311-3 (BIOL 311-3 may be taken concurrently)

CHEM 310-3 Analytical Chemistry II A laboratory course (two hours of lecture and three hours of laboratory per week) designed as a sequel to CHEM 210-3. Topics include separation techniques (column chromatography, TLC, HPLC, GC), mass spectroscopy and NMR spectroscopy. An emphasis is placed on the isolation and structural elucidation of molecules.

Prerequisites: CHEM 203-3, 210-3

CHEM 311-3 Analytical Chemistry III A laboratory course (two hours of lecture and three hours of laboratory per week) designed to augment CHEM 210-3 and CHEM 310-3. Topics include pH and ion specific electrodes, electrochemical methods and crystallography.

Prerequisites: CHEM 203-3, 210-3

CHEM 312-3 Organic Chemistry Lab III A laboratory based course (one hour lecture, six hour lab) teaching the various techniques used in modern organic chemistry, with an emphasis on synthetic methods. This course is designed to complement the material taught in CHEM 301-3 and 304-3.

Prerequisites: one of CHEM 301-3 or 304-3

CHEM 313-1.5 Physical Chemistry Lab I A laboratory course in physical chemistry consisting of six hours laboratory and one hour lecture in alternate weeks. In combination with CHEM 314-1.5, this course covers the

fundamental aspects of physical chemistry such as spectroscopy, thermodynamics, equilibrium, and kinetics.

Prerequisites: CHEM 200-3

CHEM 314-1.5 Physical Chemistry Lab II A laboratory course in physical chemistry consisting of six hours laboratory and one hour lecture in alternate weeks. In combination with CHEM 313-1.5, this course covers the fundamental aspects of physical chemistry such as spectroscopy, thermodynamics, equilibrium, and kinetics.

Prerequisites: CHEM 200-3

CHEM 320-3 Inorganic Chemistry II A lecture-based course that is focused on the chemistry of the first row of transition elements, along with symmetry and group theory.

Prerequisites: CHEM 202-3

CHEM 321-3 Inorganic Chemistry III A lecture-based course that is focused on the chemistry of the second and third row transition elements. In addition, organometallic chemistry (particularly as it applies to industrial processes) is discussed.

Prerequisites: CHEM 202-3

CHEM 322-3 Inorganic Chemistry Lab A laboratory-based course (one hour lecture, six hour lab) examining the descriptive side of modern inorganic chemistry, including organometallic and bio-inorganic chemistry. This course will provide both general and specific laboratory skills.

Prerequisites: CHEM 202-3

CHEM 400-3 Topics in Environmental Chem Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or Dean).

Prerequisites: CHEM 302-4

Co-requisites: CHEM 408-3

CHEM 401-3 Chemistry Seminar A workshop-based course emphasizing oral and written communication in the sciences. Topics include preparation of visuals, lecture and seminar presentation, scientific writing (including grant applications and scientific articles).

Prerequisites: upper division standing in a science program and permission of the Instructor

CHEM 402-3 Topics in Organic Chemistry Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or Dean).

Prerequisites: one of CHEM 301-3 or 304-3

CHEM 403-3 Topics in Inorganic Chemistry Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or Dean).

Prerequisites: one of CHEM 320-3 or 321-3

CHEM 404-3 Topics in Physical Chemistry Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or Dean).

Prerequisites: one of CHEM 300-3 or 305-3

CHEM 405-3 Topics in Biochemistry Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or Dean).

Prerequisites: one of CHEM 306-3 or 307-3

CHEM 406-3 Research Project I The two courses, CHEM 406-3 and 407-3, are intended to act as capstone lab courses, providing experience with a wide variety of advanced synthetic, analytical and physical techniques. The courses are taken separately but a common set of experiments will be available throughout.

Prerequisites: permission of instructor

CHEM 407-3 Research Project II The two courses, CHEM 406-3 and 407-3, are intended to act as capstone lab courses, providing experience with a wide variety of advanced synthetic, analytical and physical techniques. The courses are taken separately but a common set of experiments will be available throughout.

Prerequisites: permission of instructor

CHEM 408-3 Environmental Chemistry II

Prerequisites: CHEM 302-4

CHEM 410-3 Topics in Analytical Chemistry An advanced treatment of selected topics in analytical chemistry such as spectroscopy, separation technology and analytical instrumentation. Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, provided the content of the independent offerings of the courses are sufficiently different (as determined by the Program Chair or Dean).

Prerequisites: CHEM 310-3

Precluded: CHEM 610-3

CHEM 499-(3-6) Independent Study Concentration on particular topic(s) agreed upon by the students and a member of the Chemistry faculty. May be repeated for a maximum of six credit hours. Credit may be granted for both 400 and 600 level offerings of the course provided the content is sufficiently different (as determined by the Program Chair or Dean).

Prerequisites: permission of the Program Chair

■ Commerce/Business Administration

COMM 100-3 Introduction to Canadian Business

Overview of the Canadian business environment, forms of organizations, the management function, and an introduction to the functional areas of business management. This course includes the challenges and opportunities facing small business.

Prerequisites: none. Note: Students transferring with 30 credit hours are exempt from COMM 100-3 as a course, and as a prerequisite to other courses.

COMM 210-3 Financial Accounting Introduction to the construction and interpretation of financial reports prepared primarily for external use.

Pre- or co-requisites: COMM 100-3

Registration priority in 200, 300 and 400 level Commerce courses may be given to students who require those specific courses for completion of their programs.

COMM 211-3 Managerial Accounting Introduction to the development and use of accounting information for managerial planning and control and the development of cost information for financial reports. Problems in managerial accounting using spreadsheet tools.

Prerequisites: COMM 210-3

COMM 220-3 Financial Management I Deals with functions of the financial manager within the corporate setting. Topics include the Canadian financial environment, forms of business organizations and taxation, financial forecasting and planning, financial statement analysis, time value of money, capital budgeting under certainty, working capital management and short, intermediate and long term financing.

Prerequisites: COMM 100-3, 210-3, ECON 205-3 or MATH 242-3

COMM 230-3 Organizational Behaviour Provides an introduction to the study of people and groups in organizations, including such topics as work motivation, job attitudes, group and inter-group dynamics, leadership, organizational change and a brief introduction to organizational structure.

Prerequisites: COMM 100-3

COMM 240-3 Introduction to Marketing Introduces students to marketing as a social, consumer, and managerial process. Although the broad focus is on understanding the societal and consumer implications of marketing activities, students will also adopt a managerial perspective to consider how marketing decisions about the choice of target markets and the development of product/service, price, promotion and distribution strategies influence the evolution of the exchange process and the satisfaction of buyer needs.

Prerequisites: COMM 100-3

COMM 251-3 Introduction to Management Science A study of analytical approaches in management science that assist managerial decision-making under conditions of both certainty and uncertainty. Attention will be given to the formulation of quantitative models from a variety of areas. Topics include linear programming, transportation/assignment problems, integer programming, multicriteria decisions, dynamic programming, decision analysis, queuing theory, and simulation.

Prerequisites: MATH 150-3, MATH 152-3, ECON 205-3 or MATH 242-3

COMM 300-3 Introduction to Business Law An introduction to the general principles of law relating to contract and tort. Special contracts to be considered include agency, assignment, bailment, employment guarantee, insurance, negotiable instruments, sale of goods, and contracts creating a security interest in goods. Some aspects of the law relating to real property, partnership and corporations are discussed.

Prerequisites: COMM 100-3

COMM 302-3 Entrepreneurship Focuses on the processes and techniques required to convert ideas, inventions and innovations into profitable business undertakings. Students have the opportunity to develop a new venture business plan.

Prerequisites: 15 credit hours of Commerce courses

COMM 303-3 Introduction to International Business Introduces the student to the global setting in which international business decisions are made. Emphasis is placed on the factors which are relevant to decision-making and a wide range of international business functions (e.g. marketing, finance, human resource management) and international business forms (e.g. export-import, foreign manufacturing, joint ventures).

Prerequisites: 15 credit hours of Commerce courses including COMM 240-3

COMM 310-3 Intermediate Financial Accounting I An examination of financial accounting theory from the viewpoint of procedures, principles and professional requirements related to the measurement, recording and reporting of assets and related income and expenses for use by third parties.

Prerequisites: COMM 211-3

COMM 311-3 Intermediate Financial Accounting II
Continuation of COMM 310-3.

Prerequisites: COMM 310-3

COMM 312-3 Intermediate Managerial Accounting The provisions and analysis of cost accounting information that will assist management in making operating decisions and in

evaluating operations and performance. The utilization of statistical analysis and linear models is included.

Prerequisites: COMM 211-3

COMM 313-3 Personal Taxation Interpretation problems associated with the Income Tax Act and the provisions of the Act concerned with the computation of taxable income and tax payable by an individual are examined.

Prerequisites: COMM 210-3

COMM 314-3 Corporate Taxation The provisions of the Income Tax Act relating to the taxes payable by various types of corporate entities and trusts are considered. Application of the provisions of the Act to business situations is examined in detail.

Prerequisites: COMM 313-3

COMM 315-3 International Accounting Examines the underlying causes of international accounting problems in terms of both internal financial control and external financial reporting. Emphasis is placed on understanding the environmental, social, economic and legal influences which have affected accounting evolution in various countries.

Prerequisites: COMM 210-3, 211-3

COMM 320-3 Financial Management II Deals with analytical techniques and broad issues of financial management. Topics include capital budgeting and uncertainty, risk and return, the capital asset pricing model and market efficiency, determination of discount rates for capital projects including the weighted average cost of capital, leasing options and applications to corporate finance, capital structure and dividend policy, mergers and acquisitions, bankruptcy and reorganization.

Prerequisites: COMM 220-3, MATH 150-3, MATH 152-3

COMM 321-3 Investments and Security Analysis The principles and techniques of investing in securities are discussed. Material covered includes sources and analysis of investment information, evaluation of risks and returns associated with various financial instruments including futures and options. Security analysis including fundamental and technical analysis.

Prerequisites: COMM 320-3

COMM 322-3 International Financial Management An introduction to the various international financial markets and the problems, risks and opportunities involved in the financial management of multinational enterprises. Hedging of foreign exchange risk, international capital budgeting and import/export financing are among the topics covered.

Prerequisites: COMM 320-3

COMM 323-3 Risk, Insurance and Financial Planning
Deals with the concepts of risk and business risk

COURSE DESCRIPTIONS: COMMERCE/BUSINESS ADMINISTRATION

management, the various kinds of insurance including life, health and property and liability. Financial planning for the individual and employees including pension plans, taxation issues and real asset investment decisions including real estate.

Prerequisites: COMM 320-3

COMM 330-3 Human Resource Management The analysis, design, operation and management of HRM processes, their contribution to employee and organization effectiveness and the influence of organizational and external environment. The principal topics considered are HRM planning and its link to strategic planning, employment equity, staffing, training/development (including performance appraisal) and employee maintenance. The course views the management of human resources as the joint responsibility of line and HRM managers.

Prerequisites: COMM 230-3

COMM 331-3 Organizational Theory This course focuses on the structure of the organization, examining such determining factors as the organization's size, environment, technology and strategy. It also examines internal politics, conflict, decision-making, and culture from a macro perspective.

Prerequisites: COMM 230-3

COMM 332-3 Business and Professional Ethics The course begins with an introduction to ethical philosophy. A significant part of the course consists of application of ethical philosophies to specific ethical issues of relevance to work organizations. Responding to the competing demands of multiple stakeholders is discussed.

Prerequisites: none

COMM 333-3 Women in Organizations A seminar course that examines the issues faced by women in the work force. Topics include women in non-traditional occupations and women as entrepreneurs. Individual, organizational and societal approaches to enhancing opportunities and quality of work life for working women are explored.

Prerequisites: COMM 230-3

COMM 340-3 Marketing Communication A study of communication theory and its application to advertising and sales promotion decisions. An examination of the role of advertising in relation to the overall marketing strategy.

Prerequisites: COMM 240-3

COMM 341-3 Sales Management The study of the management of the personal selling area, including an examination of the selling function, the sales manager, and sales management.

Prerequisites: COMM 240-3

COMM 342-3 Services Marketing Applies marketing management principles specifically to the service industries, including the financial services and tourism industries.

Prerequisites: COMM 240-3

COMM 343-3 Consumer Behaviour This course focuses on concepts, principles and theories drawn from marketing and related social science disciplines that are relevant to the prediction and explanation of individual, group and environmental influences on consumption behaviour. Beyond understanding how consumption behaviour is manifested in all of its forms, students are exposed to a managerial decision-making perspective by examining how target market and positioning strategies can be used to influence consumer cognitions, feelings, attitudes, and behaviour.

Prerequisites: COMM 240-3

COMM 344-3 Marketing Channels A study of the marketing distribution system, retailing, wholesaling, merchandising and relevant legislation.

Prerequisites: COMM 240-3

COMM 345-3 Retail Management The role of retailing in marketing; structure of retailing in Canada; retail management of location, layout, buying inventory, personnel, sales, promotion, financial control and pricing procedures.

Prerequisites: COMM 240-3

COMM 350-3 Production and Operations Management An introduction to the production/operations function with emphasis on the use of both qualitative and quantitative analysis to assist decision-making. Topics include forecasting, product design, capacity planning, process selection, facility location and layout, aggregate planning, material requirement planning, JIT, scheduling, inventory management, project planning, statistical quality control and total quality management.

Prerequisites: COMM 251-3

COMM 351-3 Management Information Systems This course emphasizes the strategic role of information systems in modern business. Topics include the technical foundations of information systems, the impact of information systems on business operations and decision-making, and the processes that are required for successful implementation of business information systems.

Prerequisites: COMM 100-3, CPSC 150-3, ECON 205-3 or MATH 242-3

COMM 400-3 Business Policy I An integrated course which focuses on the functions and responsibilities of senior management. The course deals with the concept of organizational strategy, including how it is developed and implemented in actual situations. The course includes

extensive use of case analysis. Focus on cases related to small business, tourism and other industries of regional significance.

Recommended: open to Commerce students in their graduating year

COMM 401-3 Business Policy II In this integrated course, students work in groups to analyze a particular industry. They focus on strategic, human resource, accounting, finance, and regulatory issues facing organizations in that industry or sector. Groups are required to prepare a comprehensive written report as well as to make an oral presentation. Focus is on industries of regional significance.

Recommended: open to Commerce students in their graduating year

COMM 410-3 Accounting Theory A critical examination of problem areas of current interest in financial accounting theory. Consideration of methods by which accounting theory is developed and examination of specific models including historical costs, resale price and price level adjustment models.

Prerequisites: COMM 311-3

COMM 411-3 Advanced Management Accounting

Design of management planning and control systems. Development of depth of understanding in the quantitative techniques relevant to the managerial accountant. Consideration is given to cost analysis, transfer pricing and information for capital expenditure and inventory decisions.

Prerequisites: COMM 312-3

COMM 412-3 Auditing Principles of internal auditing, the nature of evidence, reporting requirements, standards in auditing. The philosophy of auditing, independence and ethics are also considered.

Prerequisites: COMM 311-3

COMM 413-3 Accounting: Advanced Topics Advanced and selected topics in accounting. The general content tends to focus on material not dealt with on a recurring basis in the regular course sequence.

Prerequisites: COMM 311-3, 312-3

COMM 414-3 Advanced Financial Accounting An examination of accounting problems encountered in such areas as complex business organizations, intercorporate investments, foreign operations and foreign currency transactions, and not-for-profit operations.

Prerequisites: COMM 311-3

COMM 420-3 Advanced Financial Management Intensive treatment is given to selected areas of finance, including elements of both theory and practice with an emphasis on the role of financial strategy in the overall

corporate business policy. Emphasis is placed on financial policy and strategy issues through discussions, case analysis and presentation covering a variety of topics.

Prerequisites: COMM 320-3, 321-3

COMM 421-3 Portfolio Theory and Management

Fundamentals of multi-asset portfolio construction and management including fixed-income portfolio strategies. The uses of derivative securities in portfolio management. Issues involved in setting investment objectives and performance evaluation. International investment and diversification. Asset allocation and contemporary issues.

Prerequisites: COMM 320-3, 321-3

COMM 422-3 Management of Financial Institutions The financial management issues of financial institutions such as chartered banks, insurance companies, trust companies, mortgage and loan companies, pension funds and investment companies. The regulatory environment and the asset and liability management techniques employed.

Prerequisites: COMM 321-3

COMM 423-3 Financial Engineering Study of futures, options, swaps and other complex derivative securities, application of option pricing theory to a broad range of corporate finance and investment decisions.

Prerequisites: COMM 320-3, 321-3

COMM 429-3 Finance: Advanced Topics The examination and application of selected topics in finance. Topics depend upon instructor and student interest.

Prerequisites: COMM 320-3

COMM 430-3 Organization Studies: Selected Topics The content may vary with each offering. This course focuses on three to five topics related to the material presented in COMM 230-3 and/or 331-3. Consult the program for information concerning topics.

Prerequisites: COMM 331-3

COMM 431-3 Industrial Relations Canadian industrial and labour relations with emphasis on the labour-management relationship. Topics include the basic elements of an industrial relations system, the social, economic, legal and political environment in which participants interact, and the process of collective bargaining.

Prerequisites: COMM 330-3

COMM 432-3 Cross-cultural Workplace Practices

Examines cross-cultural differences in management practices, industrial relations systems and human resource practices, including those pertaining to First Nations. It also includes a discussion of the management of diversity within North American organizations.

Prerequisites: upper division standing and COMM 330-3

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COMM 439-3 HRM: Selected Topics The examination and application of selected, current and emerging topics in human resources management. Topics may vary from semester to semester, depending on student and instructor interest.

Prerequisites: COMM 230-3, 330-3

COMM 440-3-6 Internship

Prerequisites: upper division standing and permission of the Program Chair

COMM 441-3 International Marketing The problems and opportunities of marketing in foreign environments are examined. The course focuses on the cultural, economic and geographic problems encountered in managing the marketing function from a Canadian manager's perspective.

Prerequisites: COMM 240-3

COMM 442-3 Marketing Strategy Using a marketing simulation, this course is designed to assist students in acquiring skill and experience in strategic marketing decision-making. By understanding how changes in markets, industries, and organizational strengths/weaknesses create marketing opportunities and threats, students are exposed to the role of strategic marketing decision-maker. In that role, they will learn to develop and execute creative target market and positioning strategies in a competitive environment.

Prerequisites: COMM 240-3, 343-3

COMM 443-3 Marketing Research Assists students in acquiring an understanding of basic marketing research concepts and practice that facilitates the systematic specification, collection, and analysis of information for marketing decision-making. The course is organized around an applied research project in which students will be responsible for conceiving, executing, analyzing and reporting the results of an original marketing research project for a business client.

Prerequisites: COMM 240-3, ECON 205-3 or MATH 242-3

COMM 449-3 Advanced Topics in Marketing Advanced and selected topics in marketing. Topics depend on instructor and student interest and focus on material not dealt with in the regular course sequence.

Prerequisites: COMM 240-3, and permission of instructor

COMM 450-3 Total Quality Management This course examines the basic concepts and tools of total quality management, strategy quality planning, management of process (technology) quality, quality value and engineering, loss function and quality level, statistical quality control, quality and operation results, Taguchi methods, Just-In-Time, preventive maintenance, and other aspects of quality management.

Prerequisites: ECON 205-3 or MATH 242-3 or equivalent
Recommended: COMM 350-3

COMM 498-(3-6) Special Topics in Business Administration

Prerequisites: upper division standing and permission of the Program Chair

COMM 499-(3-6) Independent Study

Prerequisites: upper division standing and permission of the Program Chair

■ Computer Science

Unless otherwise stated, a student may enrol in any Computer Science course with permission of the Program Chair.

Note that BC Introductory Mathematics 11, Applications of Mathematics 11 and Applications of Mathematics 12 are not considered as prerequisites for any Computer Science courses as currently taught.

CPSC 100-4 Computer Programing I This course provides a standard introduction to the discipline of computer science in the object oriented paradigm. Classes and objects are introduced. Assignment, looping, and conditional statements, syntax diagrams, data types, structured programing, fundamentals of programing style, input and output devices, arrays, pointers, lists, file structure, parameters, binary arithmetic, storage media, searching and sorting, program development through organization and control of classes. The course will be taught using the C++ programing language running under Unix and will provide a comprehensive overview of all its features except dynamic storage allocation.

Prerequisites: Math 12 or Principles of Math 12 or MATH 115-3

CPSC 101-4 Computer Programing II A continuation of CPSC 100-4. Dynamic storage allocation, stacks, queues, and binary trees implemented as linked lists, the run-time stack and the heap, large program design and development, design of user interfaces. Students will work co-operatively to complete a modest-sized project. The concepts of type hierarchy, inheritance and object hierarchy will be introduced from the C++ language.

Prerequisites: CPSC 100-4 and 141-3

CPSC 110-3 Introduction to Computer Systems and Programing The course provides an introduction to computer systems and programing, concepts in computer architecture including the central processing unit, buses, memory units, input/output and communication devices. The introduction to operating systems emphasizes the file system and program development utilities. Programing concepts and techniques include problem analysis, program design, coding, and testing, as well as language elements such as data types, variables and assignment statements, expressions, mixed-mode arithmetic, input/output operations, basic data structures and control structures, procedures and abstract

data types. Basic database management concepts will also be introduced. Students will develop small applications programs. CPSC 110-3 is a first course in computer science and computer programming. Cannot be counted as a computer science course by computer science majors.

Prerequisites: Math 12 or Principles of Math 12 or MATH 115-3

CPSC 126-3 Introduction to Computer Systems

Algorithms and computation. Major hardware and software components of a computer system. Basic concepts of computer hardware architecture, CPU instruction set, and assembly language. Basic operating system concepts. A brief overview of Unix. An introduction to computer networks. Local, metropolitan, and wide-area networks. Client-server architectures. Internet. Multimedia communications.

Prerequisites: none

CPSC 141-3 Discrete Computational Mathematics Set theory (review). Elements of combinatorics and probability theory. Mathematical induction. Logic and formal reasoning. Functions and relations. Algorithms. Automata theory and formal languages. Graphs. Trees and tree traversal algorithms. Boolean algebra.

Prerequisites: Math 12 or Principles of Math 12 or MATH 115-3

Precluded: CPSC 240-3

CPSC 150-3 Computer Applications Taught through the use of common applications, beginning with word processing, this course prepares students for future as well as present needs in computing literacy by reaching beyond examples to recognition of principles. Students gain a practical grasp of data formats, program behaviour, using documentation, and the role of hardware. Communications (including the World Wide Web), and cross-platform transference of data, feature prominently, in addition to traditional office applications such as spreadsheets and databases. Students attend lectures and work from web-mounted lab material. Each student undertakes a personal project, which documents independent learning. May not be counted as a computer science course by computer science majors.

Prerequisites: none

CPSC 200-3 Data Structures and Algorithm Analysis

Measuring computational complexity through algorithm analysis. Comparison of various sorting algorithms. Various classical data structures such as binary trees, linked lists, and heaps, implemented in an object-oriented programming language. Iterator types. Generic abstract data types. Assertions, loop and data type invariants, and an introduction to program correctness. Applications.

Prerequisites: CPSC 101-4 and 141-3

CPSC 230-4 Computer Architecture I Principles of digital circuit design, basic switching functions, composite functions, switching algebra, canonical forms and gate implementation, algebraic simplifications, Karnaugh maps, Quine-McCluskey tables, voltage assignments, logic technologies, standard logic circuits, decoders, encoders, multiplexers, demultiplexers, comparators, adders, sequential logic, clocked flipflops, registers, counters, register transfer logic, arithmetic and logic unit, instruction set, addressing modes, central processing unit structure and function, bus organization, control unit, designing a minicomputer PDP-8.

Prerequisites: CPSC 101-4

CPSC 231-4 Computer Architecture II Design levels, characteristics of a good computer architecture, classification of computer architectures, instruction set architecture, CPU, bus system, memory system, I/O system, acceleration mechanisms, microprocessor based computer architecture, Reduced Instruction Set Computers (RISC), multiprocessor systems, parallel processors, SIMD machines, MIMD machines, dataflow architectures, neural networks.

Prerequisites: CPSC 230-4

CPSC 241-3 Discrete Computational Mathematics II

Elements of number theory. The Euclidean algorithms. The concept of program correctness. Analysis of algorithms. Partial order. The principle of inclusion and exclusion. Generating functions. Recurrence relations. Algorithmic graph theory.

Prerequisites: CPSC 141-3 or 240-3

CPSC 270-3 Human Interface Design The course examines the theory and practice of human-computer interaction and interface design. Human aspects of the interaction: cognition, perception, attention and memory constraints, knowledge representation, interface metaphors, learning, communication. Technological aspects of interface design: input-output devices, interaction styles, windowing systems and tools, client-server models, interfaces for collaborative work, virtual environments. A project with a substantial user interface component, involving interface design, validation, implementation, testing, and evaluation will be completed.

Prerequisites: CPSC 200-3

CPSC 281-3 Data Structures I Decision trees, B-trees, managing multiple stacks, tree traversals with stacks and link inversion, prefix, infix, and postfix expressions, conversion of infix to postfix, hashing, collision resolution using chaining and open addressing, dynamic storage allocation algorithms, maintaining complex linked structures, garbage collection, encryption techniques, Huffman codes, linked list representation of arrays, access formulas for multidimensional arrays, AVL trees, splay trees.

Prerequisites: CPSC 200-3

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CPSC 290-3 Systems Analysis and Design An introduction to the techniques and philosophy of systems analysis, design, and development. Supporting software will be used.

Prerequisites: CPSC 101-4

CPSC 300-3 Software Engineering I Fundamental problem-solving concepts, the software development process, software requirements and specifications, software design and implementation, verification and validation, organization and management of programming teams, documentation. Students will work on a major team programming project over two semesters, and should enrol in CPSC 301-3 upon successful completion of this course.

Prerequisites: CPSC 281-3

CPSC 301-3 Software Engineering II A continuation of CPSC 300-3. Instead of following a normal lecture format, the instructor will lecture once per week to the entire class and meet regularly with each individual team.

Prerequisites: CPSC 300-3

CPSC 311-3 Computer Applications Programming

Intended to develop programming skills in an object-oriented language with emphasis on applications programming. Topics include system analysis and design of larger programs, programming with classes and objects, dynamic storage allocation, recursion, sorting and searching algorithms. Examples and assignments will be drawn from various areas of computer applications.

Prerequisites: CPSC 110-3 or permission of the instructor

Precluded: CPSC 101-3

CPSC 320-3 Programming Languages Basic programming language concepts; syntax, semantics, and pragmatics; basic types of formal grammars and automata; context-free grammars, parse trees, associativity and precedence, ambiguity, EBNF and syntax diagrams; data types, memory models, control structures, definitions and blocks, abstraction mechanisms, parameter passing, binding of global names; type checking and type conversion; denotational description of programming languages; object-oriented, functional, and logic programming paradigms; languages for concurrent and distributed programming. The course includes examples and case studies from a variety of languages, as well as programming assignments emphasizing the use of their specific features.

Prerequisites: CPSC 230-4, 281-3, and 340-3, or permission of the instructor

CPSC 321-3 Operating Systems Tasking and processes, process co-ordination and synchronization, scheduling and dispatch, physical and virtual memory organization, paging and segmentation, device management, file systems, security and protection, communications and networking, distributed and real-time systems. Students will study a simple operating system and will have an opportunity to make modifications to it in laboratory exercises.

Prerequisites: CPSC 231-4, 281-3

CPSC 325-3 Introduction to Compiler Design

Introduction to programming language translation. Compilers, interpreters, and other language processors. The phases of a compiler. Lexical analysis and scanner design. Syntax analysis and parsing techniques. Semantic analysis and code generation. Compile-time and run-time aspects of semantics. Execution environment and run-time support. Code optimization. Testing. The students will design and implement a compiler for a small Pascal-like language.

Prerequisites: CPSC 320-3, 340-3

CPSC 340-3 Theory of Computation Regular expressions, deterministic and non-deterministic finite automata, Mealy machines, context-free and other grammars, pushdown automata, Chomsky and Greibach normal forms, Chomsky hierarchy, pumping lemmas, Turing machines, undecidability, computability, recursive function theory, complexity of computation, NP-hard and NP-complete problems.

Prerequisites: CPSC 241-3

CPSC 370-3 Functional and Logic Programming

Introduction to programming in symbolic languages such as the functional language Scheme and the logic programming language PROLOG, with applications to systems programming, symbolic computation, artificial intelligence, and other areas.

Prerequisites: CPSC 241-3 and 281-3

CPSC 371-3 Artificial Intelligence Productions and matching, knowledge representation, search, logical reasoning and the use of PROLOG in learning, natural-language understanding, computer vision, expert systems.

Prerequisites: CPSC 370-3, or permission of the instructor

CPSC 421-3 Advanced Compilation Techniques Based on the concepts established in CPSC 325-3, this course provides a broad overview of modern techniques for lexical analysis, syntax analysis, syntax directed translation, type-checking, code generation, and code optimization. It addresses the implementation aspects of advanced programming language features, and introduces the student to compiler-writing tools and compiler generators.

Prerequisites: CPSC 320-3, 321-3 and 325-3

CPSC 422-3 Database Systems The course will cover relational, hierarchical, and network systems, storage structure and access methods, data definition and data manipulation language, SQL, relational data structure, relational algebra and calculus, query optimization, recovery and concurrency, security and integrity, introduction to functional dependencies, normalization, INF, 2NF, 3NF and BCNF. A relational DBMS and data processing software will be used for understanding SQL and other concepts.

Prerequisites: CPSC 241-3, and 321-3, or permission of the instructor

CPSC 434-3 Hardware Architecture CPU architecture including registers and accumulators, ALU design, control unit, operand codes and instruction sets, register transfer level language, fetch execute cycle and branching, address and data buses, microcoding of instructions. Memory design and addressing, memory types and memory performance, cache and caching techniques, memory indirect addressing. Interrupts and exception handling techniques. DMA controllers. Pipeline and parallel architectures.

Prerequisites: CPSC 231-4, 321-3, or permission of the instructor

CPSC 440-3 Computer Networks Data transmission and encoding, multiplexing, circuit switching, packet switching, network protocols, data communication hardware, ISO model, Data Link Layer, Network Layer, Local Area Networks (LANs), Wide Area Networks (WANs), Metropolitan Area Networks (MANs), Backbone Networks (BNs), network design and implementation, network management, and network security.

Prerequisites: CPSC 321-3

CPSC 441-3 Distributed Systems Evolution of technology and concepts underlying distributed computing systems. Fundamentals and principles of distributed computing. Language constructs for distributed programming. Formal specification of distributed systems. Distributed algorithms. Elements of distributed operating systems. Elements of fault-tolerant distributed architectures.

Prerequisites: CPSC 321-3, or permission of the instructor

CPSC 442-3 Parallel Computing Classification of parallel architectures. SIMD vs MIMD. Distributed vs shared memory. Interconnection networks. Topologies of dynamic and static networks. Basic communications operations. Basic procedures on processor networks. Vectorizing. Pipelining. Parallel algorithms (for matrix multiplication, Gaussian elimination, sorting, etc.). Task scheduling. Implementation of parallel programs on parallel machines. Performance issues in parallel computing. Parallel libraries (PVM and MPI).

Prerequisites: CPSC 321-3 or permission of the instructor

CPSC 460-3 Computer Science Seminar Topic will vary from year to year. Offered in a seminar format with limited enrolment. Students will complete a substantial project under the supervision of the instructor.

Prerequisites: fourth year standing and permission of the instructor

CPSC 472-3 Knowledge Based Systems Rule-based forward chaining and backward chaining systems, theorem provers, inference engines and meta-interpreters. Knowledge representation and knowledge-acquisition, machine learning techniques. Uncertainty, Bayesian probability, certainty factors, non-monotonic logics and reasoning with beliefs, fuzzy logic and other approaches.

Prerequisites: CPSC 371-3 or permission of the instructor

CPSC 474-3 Natural Language Processing Formal grammars and the Chomsky hierarchy. Natural languages and models of syntax. Lexicons and augmented lexicons, feature structures, morphology. Top down and bottom up parsers, left corner and chart parsers. Dealing with context sensitivity. Semantic structures and knowledge representation for NLP. Linguistic models, LFG, HPSG, Principles and Parameters. Introduction to discourse models and extra sentential processing.

Prerequisites: CPSC 371-3 or permission of the instructor

CPSC 482-3 Data Structures II External sorting and merging, best case, worst case, and average case estimates, time and space estimates for algorithms studied in CPSC 200-3 and 281-3.

Prerequisites: CPSC 281-3, and 340-3, or permission of the instructor

CPSC 490-3 Computing Project I This course consists of a large computing project undertaken by the student or by teams of students. Projects will be geared to industrial or research needs and designed to give the senior students first hand experience in applying their knowledge and skills to the design and implementation of medium to large software systems. Students will employ standard software engineering practices. Regular project team meetings will be held to review project milestones.

Prerequisites: CPSC 301-3 or permission of the instructor

CPSC 491-3 Computing Project II This course consists of a large computing project undertaken by the student or by teams of students. Projects will be geared to industrial or research needs and designed to give the senior students first hand experience in applying their knowledge and skills to the design and implementation of medium to large software systems. Students will employ standard software engineering practices. Regular project team meetings will be held to review project milestones.

Prerequisites: CPSC 301-3 or permission of the instructor

CPSC 495-3 Undergraduate Research Project I This course consists of a small research project undertaken by the student or by teams of students. Projects will consist of the definition of a problem in computing and a literature survey of recent work in the field. Students will be encouraged to define their own possible solutions and to prototype the solutions where appropriate. Regular review of progress will be made in meetings. Skills will be developed in the preparation of topic survey notes and in the development of arguments in support of or against published approaches to problems in computing. Students will be expected to prepare and present their work.

Prerequisites: permission of the instructor

CPSC 496-3 Undergraduate Research Project II This course consists of a small research project undertaken by the student or by teams of students. Projects will consist of the

COURSE DESCRIPTIONS: COMPUTER SCIENCE, CO-OP EDUCATION

definition of a problem in computing and a literature survey of recent work in the field. Students will be encouraged to define their own possible solutions and to prototype the solutions where appropriate. Regular review of progress will be made in meetings. Skills will be developed in the preparation of topics survey notes and in the development of arguments in support of or against published approaches to problems in computing. Students will be expected to prepare and present their work.

Prerequisites: permission of the instructor

CPSC 498-3 Special Topics in Computer Science I The topic of this course will vary depending upon Faculty and student interest and Faculty availability.

Prerequisites: permission of the instructor

CPSC 499-3 Special Topics II The topic for this course will vary, depending on student interest and faculty availability.

Prerequisites: permission of the instructor

■ Co-op Education

Unless otherwise stated, the prerequisites for all Co-op Education courses are: acceptance into Co-operative Education, declaration of academic program major, completion of 30 credit hours or permission of the relevant Co-op Co-ordinator and Program Chair. Minimum GPA 2.75.

ANTH 395 Co-op Work Semester I First term co-operative work experience for students majoring in Anthropology.

ANTH 396 Co-op Work Semester II Second term co-operative work experience for students majoring in Anthropology.

Prerequisites: ANTH 395

ANTH 397 Co-op Work Semester III Third term co-operative work experience for students majoring in Anthropology.

Prerequisites: ANTH 396

ANTH 398 Co-op Work Semester IV Fourth term co-operative work experience for students majoring in Anthropology.

Prerequisites: ANTH 397

ANTH 399 Co-op Work Semester V Fifth term co-operative work experience for students majoring in Anthropology.

Prerequisites: ANTH 398

CHEM 395 Co-op Work Semester I First term co-operative work experience for students majoring in Chemistry.

CHEM 396 Co-op Work Semester II Second term co-operative work experience for students majoring in Chemistry.

Prerequisites: CHEM 395

CHEM 397 Co-op Work Semester III Third term co-operative work experience for students majoring in Chemistry.

Prerequisites: CHEM 396

CHEM 398 Co-op Work Semester IV Fourth term co-operative work experience for students majoring in Chemistry.

Prerequisites: CHEM 397

CHEM 399 Co-op Work Semester V Fifth term co-operative work experience for students majoring in Chemistry.

Prerequisites: CHEM 398

COMM 395 Co-op Work Semester I First term co-operative work experience for students majoring in the Business Program within the Faculty of Management.

COMM 396 Co-op Work Semester II Second term co-operative work experience for students majoring in the Business Program within the Faculty of Management.

Prerequisites: COMM 395

COMM 397 Co-op Work Semester III Third term co-operative work experience for students majoring in the Business Program within the Faculty of Management.

Prerequisites: COMM 396

COMM 398 Co-op Work Semester IV Fourth term co-operative work experience for students majoring in the Business Program within the Faculty of Management.

Prerequisites: COMM 397

COMM 399 Co-op Work Semester V Fifth term co-operative work experience for students majoring in the Business Program within the Faculty of Management.

Prerequisites: COMM 398

CPSC 395 Co-op Work Semester I First term co-operative work experience for students majoring in Computer Science.

CPSC 396 Co-op Work Semester II Second term co-operative work experience for students majoring in Computer Science.

Prerequisites: CPSC 395

CPSC 397 Co-op Work Semester III Third term co-operative work experience for students majoring in Computer Science.

Prerequisites: CPSC 396

CPSC 398 Co-op Work Semester IV Fourth term co-operative work experience for students majoring in Computer Science.

Prerequisites: CPSC 397

CPSC 399 Co-op Work Semester V Fifth term co-operative work experience for students majoring in Computer Science.

Prerequisites: CPSC 398

ECON 395 Co-op Work Semester I First term co-operative work experience for students majoring in Economics.

ECON 396 Co-op Work Semester II Second term co-operative work experience for students majoring in Economics.

Prerequisites: ECON 395

ECON 397 Co-op Work Semester III Third term co-operative work experience for students majoring in Economics.

Prerequisites: ECON 396

ECON 398 Co-op Work Semester IV Fourth term co-operative work experience for students majoring in Economics.

Prerequisites: ECON 397

ECON 399 Co-op Work Semester V Fifth term co-operative work experience for students majoring in Economics.

Prerequisites: ECON 398

ENGL 395 Co-op Work Semester I First term co-operative work experience for students majoring in English.

ENGL 396 Co-op Work Semester II Second term co-operative work experience for students majoring in English.

Prerequisites: ENGL 395

ENGL 397 Co-op Work Semester III Third term co-operative work experience for students majoring in English.

Prerequisites: ENGL 396

ENGL 398 Co-op Work Semester IV Fourth term co-operative work experience for students majoring in English.

Prerequisites: ENGL 397

ENGL 399 Co-op Work Semester V Fifth term co-operative work experience for students majoring in English.

Prerequisites: ENGL 398

FNST 395 Co-op Work Semester I First term co-operative work experience for students majoring in First Nations.

FNST 396 Co-op Work Semester II Second term co-operative work experience for students majoring in First Nations.

Prerequisites: FNST 395

FNST 397 Co-op Work Semester III Third term co-operative work experience for students majoring in First Nations.

Prerequisites: FNST 396

FNST 398 Co-op Work Semester IV Fourth term co-operative work experience for students majoring in First Nations.

Prerequisites: FNST 397

FNST 399 Co-op Work Semester V Fifth term co-operative work experience for students majoring in First Nations.

Prerequisites: FNST 398

HIST 395 Co-op Work Semester I First term co-operative work experience for students majoring in History.

HIST 396 Co-op Work Semester II Second term co-operative work experience for students majoring in History.

Prerequisites: HIST 395

HIST 397 Co-op Work Semester III Third term co-operative work experience for students majoring in History.

Prerequisites: HIST 396

HIST 398 Co-op Work Semester IV Fourth term co-operative work experience for students majoring in History.

Prerequisites: HIST 397

HIST 399 Co-op Work Semester V Fifth term co-operative work experience for students majoring in History.

Prerequisites: HIST 398

COURSE DESCRIPTIONS: CO-OP EDUCATION

INTS 395 Co-op Work Semester I First term co-operative work experience for students majoring in International Studies.

INTS 396 Co-op Work Semester II Second term co-operative work experience for students majoring in International Studies.

Prerequisites: INTS 395

INTS 397 Co-op Work Semester III Third term co-operative work experience for students majoring in International Studies.

Prerequisites: INTS 396

INTS 398 Co-op Work Semester IV Fourth term co-operative work experience for students majoring in International Studies.

Prerequisites: INTS 397

INTS 399 Co-op Work Semester V Fifth term co-operative work experience for students majoring in International Studies.

Prerequisites: INTS 398

MATH 395 Co-op Work Semester I First term co-operative work experience for students majoring in Mathematics.

MATH 396 Co-op Work Semester II Second term co-operative work experience for students majoring in Mathematics.

Prerequisites: MATH 395

MATH 397 Co-op Work Semester III Third term co-operative work experience for students majoring in Mathematics.

Prerequisites: MATH 396

MATH 398 Co-op Work Semester IV Fourth term co-operative work experience for students majoring in Mathematics.

Prerequisites: MATH 397

MATH 399 Co-op Work Semester V Fifth term co-operative work experience for students majoring in Mathematics.

Prerequisites: MATH 398

NORS 301 Co-op Work Semester I First term co-operative work experience for students majoring in Northern Studies.

NORS 302 Co-op Work Semester II Second term co-operative work experience for students majoring in Northern Studies.

Prerequisites: NORS 301

NORS 303 Co-op Work Semester III Third term co-operative work experience for students majoring in Northern Studies.

Prerequisites: NORS 302

NORS 304 Co-op Work Semester IV Fourth term co-operative work experience for students majoring in Northern Studies.

Prerequisites: NORS 303

NORS 305 Co-op Work Semester V Fifth term co-operative work experience for students majoring in Northern Studies.

Prerequisites: NORS 304

NRES 301 Co-op Work Semester I First term co-operative work experience for a student majoring in a program within the Faculty of Natural Resources and Environmental Studies.

NRES 302 Co-op Work Semester II Second term co-operative work experience for a student majoring in a program within the Faculty of Natural Resources and Environmental Studies.

Prerequisites: NRES 301

NRES 303 Co-op Work Semester III Third term co-operative work experience for a student majoring in a program within the Faculty of Natural Resources and Environmental Studies.

Prerequisites: NRES 302

NRES 304 Co-op Work Semester IV Fourth term co-operative work experience for a student majoring in a program within the Faculty of Natural Resources and Environmental Studies.

Prerequisites: NRES 303

NRES 305 Co-op Work Semester V Fifth term co-operative experience for a student majoring in a program within the Faculty of Natural Resources and Environmental Studies.

Prerequisites: NRES 304

PHYS 395 Co-op Work Semester I First term co-operative work experience for students majoring in Physics.

PHYS 396 Co-op Work Semester II Second term co-operative work experience for students majoring in Physics.

Prerequisites: PHYS 395

PHYS 397 Co-op Work Semester III Third term co-operative work experience for students majoring in Physics.

Prerequisites: PHYS 396

PHYS 398 Co-op Work Semester IV Fourth term co-operative work experience for students majoring in Physics.

Prerequisites: PHYS 397

PHYS 399 Co-op Work Semester V Fifth term co-operative work experience for students majoring in Physics.

Prerequisites: PHYS 398

POLS 395 Co-op Work Semester I First term co-operative work experience for students majoring in Political Science.

POLS 396 Co-op Work Semester II Second term co-operative work experience for students majoring in Political Science.

Prerequisites: POLS 395

POLS 397 Co-op Work Semester III Third term co-operative work experience for students majoring in Political Science.

Prerequisites: POLS 396

POLS 398 Co-op Work Semester IV Fourth term co-operative work experience for students majoring in Political Science.

Prerequisites: POLS 397

POLS 399 Co-op Work Semester V Fifth term co-operative work experience for students majoring in Political Science.

Prerequisites: POLS 398

PSYC 395 Co-op Work Semester I First term co-operative work experience for students majoring in Psychology.

PSYC 396 Co-op Work Semester II Second term co-operative work experience for students majoring in Psychology.

Prerequisites: PSYC 395

PSYC 397 Co-op Work Semester III Third term co-operative work experience for students majoring in Psychology.

Prerequisites: PSYC 396

PSYC 398 Co-op Work Semester IV Fourth term co-operative work experience for students majoring in Psychology.

Prerequisites: PSYC 397

PSYC 399 Co-op Work Semester V Fifth term co-operative work experience for students majoring in Psychology.

Prerequisites: PSYC 398

WMST 395 Co-op Work Semester I First term co-operative work experience for students majoring in Women's Studies.

WMST 396 Co-op Work Semester II Second term co-operative work experience for students majoring in Women's Studies.

Prerequisites: WMST 395

WMST 397 Co-op Work Semester III Third term co-operative work experience for students majoring in Women's Studies.

Prerequisites: WMST 396

WMST 398 Co-op Work Semester IV Fourth term co-operative work experience for students majoring in Women's Studies.

Prerequisites: WMST 397

WMST 399 Co-op Work Semester V Fifth term co-operative work experience for students majoring in Women's Studies.

Prerequisites: WMST 398

■ Core Courses

CORE 100–3 Effective University Writing and Communication

This first year course covers both writing and speaking skills. It will not be remedial—instead it will address academic writing, critical thinking, reading, library skills and the theory and practice of speaking in formal settings.

Prerequisites: none

CORE 101–3 Humanities A study of answers to the question “what sort of people are we?” That is, where have we come from, what are our cultural backgrounds, the sources of our ideas, our philosophies, our faiths, our art, our civil organizations, our economic structures.

Prerequisites: none

COURSE DESCRIPTIONS: CORE COURSES, ECONOMICS

CORE 102–3 Physical Sciences A course devoted to the physical sciences that will include such topics as, what is Science, Chemistry, Physics, Earth Science, Astronomy and Mathematics.

Prerequisites: none

CORE 103–3 Social Sciences A study of the forms of societal and economic interaction and the types of communities—local, regional, national and international—of which we are a part.

Prerequisites: none

CORE 104–3 Life Sciences This course is devoted to the natural (biological) sciences and will include topics such as Biology, Environmental Science, Health Sciences and the ethics of science.

Prerequisites: none

Note: Students who have completed BIOL 101-4 or BIOL 102-4 may not take CORE 104-3 for credit.

■ Economics

Successful completion of grade 12 Math or equivalent is strongly recommended before taking Economics courses.

ECON 100-3 Microeconomics The interactions of households, firms and government policies. An analysis of how different economic agents interact to determine what is produced, how it is produced and to whom it is distributed.

Prerequisites: none

ECON 101-3 Macroeconomics The determinants of unemployment, inflation and growth focusing on Canada's macroeconomic performance.

Prerequisites: none

ECON 202-3 History of Economic Thought The development of economic analysis from the 18th to 20th century. Selections from the writings of Smith, Ricardo, Mill, Marx and Keynes.

Prerequisites: ECON 100-3 and 101-3 or permission of the instructor

ECON 203-3 Canadian Economic History Theories of development, regional differences, First Nations in Canadian economic development.

Prerequisites: ECON 100-3 and 101-3 or permission of the instructor

ECON 205-3 Statistics for the Social and Management Sciences An introduction to the principles and applications of statistics relevant to the social and management sciences, with emphasis on making inferences based on observed data.

Topics covered include descriptive statistics, probability, random variables, decision theory, estimation, hypothesis testing, statistical software.

Prerequisites: none

ECON 300-3 Labour Economics An examination of the Canadian labour market. The course considers labour demand and supply, wages and terms of employment, wage structures and differentials, education and training, unemployment, unions, and selected labour market policies.

Prerequisites: ECON 100-3, 101-3, or permission of the instructor

ECON 301-3 Women and the Economy Examination of women's economic situations in Canada and other industrialized economies. Labour market topics such as why women earn lower wages than men, occupational segregation, and the international division of labour will be considered. Other topics include the unequal distribution of resources within the household, pay equity, and the feminization of poverty, attention is paid to public policies relating to these issues.

Prerequisites: ECON 100-3, 101-3, or permission of the instructor

ECON 303-3 Economics of Technological Change Economic analysis of technological change and its impact on income and distribution, invention and diffusion of technology, impacts on education and training, public policy and technology.

Prerequisites: ECON 100-3, 101-3, or permission of the instructor

ECON 304-3 Transportation Economics An introduction to transportation economics. The economics of air, rail, road, water and pipeline models are assessed and compared. The effect of government regulation on Canadian transportation rates and structures are examined.

Prerequisites: ECON 100-3, 101-3, or permission of the instructor

ECON 305-3 Environmental Economics Economic analysis of renewable and non-renewable resources. The study of the relationship between economic performance and policies and environmental consequences. Global and BC issues are addressed.

Prerequisites: ECON 100-3 or permission of the instructor

ECON 306-3 Economics of Industrial Organization Examination of alternative ownership structures and forms of industrial organization, managerial conduct and performance, multinational corporations, service industries.

Prerequisites: ECON 100-3, 101-3, or permission of the instructor

ECON 308-3 International Economic Relations Trade theory, multilateral institutions (such as the World Bank and International Monetary Fund), trading blocs (such as NAFTA), internationalization of finance, world debt, North-South relations.

Prerequisites: ECON 100-3, 101-3, or permission of the instructor

ECON 309-3 Economics of Major World Regions

Analysis of the economic successes and problems of the developing economies of East and Southeast Asia and the transitional economies of Central/Eastern Europe.

Prerequisites: ECON 100-3, 101-3, or permission of the instructor

ECON 310-3 Intermediate Microeconomic Theory The study of the main principles and techniques of economic analysis in their application to modern theories of price, production, distribution and the theory of the firm.

Prerequisites: ECON 100-3, 101-3, or permission of the instructor

ECON 311-3 Intermediate Macroeconomic Theory

Concepts and methods of analysis of macroeconomic variables: consumption, investment, government and foreign trade. Classical and Keynesian models compared; analysis of economic statics and dynamics.

Prerequisites: ECON 100-3, 101-3, or permission of the instructor

ECON 312-3 Introduction to Econometrics Simple linear regression, maximum likelihood estimators, and multiple regression will be used for applied economic analysis. Students will be introduced to various software programs.

Prerequisites: ECON 100-3, 101-3, 205-3, Math 150-3, or permission of the instructor

ECON 315-3 Economics of Social Policy Examination of public expenditure with specific reference to health, education and social security. Examples will be drawn from various countries.

Prerequisites: ECON 100-3, 101-3, or permission of the instructor

ECON 316-3 Government and the Economy

An examination of the relationship between government and various aspects of the economy. Topics covered include political business cycles, the economic theory of bureaucracy and political institutions and economic growth.

Prerequisites: ECON 100-3, 101-3, or permission of the instructor

ECON 317-3 Money, Banking and Financial Institutions

An examination of the operations of the Canadian financial system and the impact of monetary policy and regulation on the performance of the economy.

Prerequisites: ECON 100-3, 101-3, or permission of the instructor

ECON 320-3 Introduction to Mathematical Economics

The mathematical interpretation of fundamental economic concepts such as demand, supply and competitive equilibrium. Application of calculus to production and distribution theory.

Prerequisites: ECON 205-3, 310-3, MATH 150-3, or permission of the instructor

ECON 321-3 Economics of Developing Countries

An analysis of the economic problems and policy choices facing developing countries. The course takes a comparative approach analyzing why some developing countries have been more successful than others.

Prerequisites: ECON 100-3, 101-3 or permission of the instructor

ECON 322-3 Public Finance

Examination of selected policy problems from areas of taxation, income security and public expenditures. Examples in Canadian public pension policy, privatization, tax reform and federal-provincial cost sharing programs.

Prerequisites: ECON 100-3, 101-3 or permission of the instructor

ECON 330-4 Resource Economics

Contemporary issues in the allocation of natural resources. Economic concepts and tools applied to forestry, recreation and other natural resource sectors.

Prerequisites: ECON 100-3

ECON 400-3 Research Seminar in Economics

Analysis and supervised research and writing on selected topics in economics.

Prerequisites: ECON 310-3, 311-3, and 312-3 or permission of the instructor

ECON 402-3 Topics in Labour Economics

An in-depth examination of selected topics in Labour Economics.

Prerequisites: ECON 300-3

ECON 405-3 Topics in Environmental Economics

An in-depth examination of selected topics in Environmental Economics.

Prerequisites: ECON 305-3

COURSE DESCRIPTIONS: ECONOMICS

ECON 406-3 Topics in the Economics of Industrial Organization An in-depth examination of selected topics in the Economics of Industrial Organization.

Prerequisites: ECON 306-3

ECON 407-3 The Economy of Northern BC A comparison of the economic characteristics of Northern BC with other Canadian regions. An examination of regional development and growth concepts and theories. An evaluation of past and present regional economic development programs and initiatives taken by various levels of government. Students cannot get credit for ECON 307-3 and ECON 407-3 or ECON 607-3.

Prerequisites: ECON 100-3, 101-3, or permission of the instructor

ECON 408-3 Topics in International Economics An in-depth examination of selected topics in International Economics.

Prerequisites: ECON 308-3

ECON 410-3 Health Economics Economic analysis applied to health care. Topics covered may include models of physician induced demand, health insurance (private versus national), cost benefit analysis and the evaluation of health technology.

Prerequisites: ECON 100-3, 101-3 or permission of the instructor

Precluded: ECON 610-3

ECON 411-3 Cost-Benefit Analysis Techniques and problems in cost-benefit analysis. Case studies of projects in the areas of natural resources, the environment, human resources, public services and transportation.

Prerequisites: ECON 100-3, 101-3 or permission of the instructor

Precluded: ECON 611-3

ECON 415-3 Topics in the Economics of Social Policy An in-depth examination of selected topics in the Economics of Social Policy.

Prerequisites: ECON 315-3

ECON 417-3 Topics in Monetary and Financial Economics An in-depth examination of selected topics in Monetary and Financial Economics.

Prerequisites: ECON 317-3

ECON 425-3 Trade and the Environment This course considers the relationship between different international trade regimes and environmental issues.

Prerequisites: ECON 100-3, 101-3, or permission of the instructor

Precluded: ECON 625-3

ECON 440-(3-6) Internship

Prerequisites: upper division standing and permission of Program Chair

ECON 451-3 Advanced Microeconomic Theory Selected topics in microeconomics.

Prerequisites: ECON 310-3, 311-3, 312-3 or permission of the instructor

ECON 452-3 Advanced Macroeconomic Theory Selected topics in macroeconomics.

Prerequisites: ECON 310-3, 311-3, 312-3 or permission of the instructor

ECON 453-3 Advanced Econometrics Selected topics in econometrics.

Prerequisites: ECON 310-3, 311-3, 312-3 or permission of the instructor

ECON 498-(3-6) Special Topics in Economics

Prerequisites: upper division standing

ECON 499-(3-6) Independent Study

Prerequisites: upper division standing and permission of Program Chair

■ English

ENGL 100-3 Introduction to Literary Structures An introduction to the reading of the three major genres: poetry, fiction, and drama. The course will introduce the students to the basic structural principles and rhetorical strategies of literary texts by observing structural and rhetorical theory applied to specific poems, fictions, and plays.

Prerequisites: none

ENGL 101-3 Introduction to Literary Theory An introduction to the theory that forms the basis of the advanced literature courses. The course surveys the major current theoretical approaches to literature, with an emphasis on the theory of gender, First Nations, postcolonial, and cultural studies. Theory will be studied in relation to specific literary texts.

Prerequisites: none

ENGL 170-3 Writing and Communication Skills Students will be taught how to construct an argument, and how to assemble and present an academic essay. There will be regular practice in writing well. The course includes library research and an oral presentation, and may also include computer skills.

Prerequisites: none

ENGL 200-3 Gender and Literary Theory This course provides an introduction to critical analyses of gender and their implications for literature. Students will gain an overview of some current topics in gender theory and apply these to contemporary texts.

Prerequisites: none

ENGL 201-3 Computing in the Humanities An introduction to the growing use of computer technology in the humanities, including word processing/desktop publishing, research using databases, electronic concordances and bibliographies, and electronic publishing on the World Wide Web. Instead of a research paper, students create a personal home page which reflects the material learned in the class. Classes should incorporate work on all three of the computing platforms available to students at UNBC (Windows and Unix); three one-hour labs a week.

Prerequisites: none

ENGL 202-3 Genre An exploration of literary genres which may include poetry, drama or the short story. Texts will be chosen to illustrate the genre's development, variety and contemporary permutations. Consult the English program handbook for details.

Prerequisites: none

ENGL 203-3 Fiction I A survey of selected trends in the development of the novel or short story, such as realism, modernism and post modernism, illustrated by novelists from a broad range of historical periods who may include Fielding, Defoe, Austen, the Brontës, Dickens, Flaubert, Conrad, James, Joyce, Woolf, Barth, Rushdie, DeLillo, and others. Consult the English program handbook for details.

Prerequisites: none

ENGL 204-3 Fiction II A study of a particular mode of representation in the novel or short story, such as the gothic, the fantastic, science fiction, metafiction, magic realism, mystery or detective fiction. This may include a broad range of authors in different countries and different historical periods such as Cervantes, Walpole, the Brontës, Poe, D M Thomas, Borges, Marquez, and Carter. Consult the English program handbook for details.

Prerequisites: none

ENGL 210-3 Women and Literature A survey of works of poetry and fiction written by women in English from the Renaissance to the present. The course will consider feminist theory and criticism in relation to these works.

Prerequisites: none

ENGL 260-3 Children's Literature An historical survey tracing literature written for children in texts as varied as *The Arabian Nights*, and Salman Rushdie's *Haroun and The Sea of Stories*.

Prerequisites: none

ENGL 270-3 Expository Writing Expository writing with a focus on science journalism and writing about the environment. Writers studied may include the Romantic poets, BC and local writers, Rachel Carson, Rudy Wiebe, David Suzuki, John Muir, Edward Abbey, etc.

Prerequisites: none

ENGL 280-3 Shakespeare A study of selected Shakespearean plays. Some of Shakespeare's non-dramatic poetry may be included. One play by a contemporary of Shakespeare (e.g. Webster, Jonson) may also be considered.

Prerequisites: none

ENGL 281-3 Renaissance Literature An introduction to the literature of the English Renaissance in the major genres (poetry and drama), focusing on Spenser, Shakespeare and Milton.

Prerequisites: none

ENGL 282-3 Restoration and 18th Century Literature A study of selected works of poetry, prose and drama of the Restoration and 18th century, including authors such as Congreve, Dryden, Pope, Swift, Johnson, Behn and early Jane Austen.

Prerequisites: none

COURSE DESCRIPTIONS: ENGLISH

ENGL 283-3 Romantic Literature A study of the English Romantic poets: Blake, Wordsworth, Coleridge, Byron, Shelley and Keats. Attention will be paid to women Romantic writers such as Mary Shelley, and the later work of Jane Austen.

Prerequisites: none

ENGL 284-3 Victorian Literature A study of selected texts of poetry, fiction and non-fiction by authors such as Thackeray, George Eliot, Dickens, Charlotte Brontë, Robert Browning, Tennyson, and Christina Rossetti.

Prerequisites: none

ENGL 285-3 Modern British Literature A study of Modernism in Britain, focusing on the period around the First World War (1900-1930) and concentrating on the following prose writers: Joyce, Lawrence, Woolf and Forster.

Prerequisites: none

ENGL 300-3 Theory The development of critical theory from Aristotle to the present. Students will be introduced to influential literary theories in an historical context, from the classical to the modern.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 320-3 First Nations Literature This course focuses on the contemporary writing of First Nations people in English in Canada and the United States. It will examine the implications of colonialism and the strategies that writers use to decolonize, redefine and affirm their identity, history and culture.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 330-3 Canadian Literature A survey of Canadian literature in English, including poetry, drama, fiction and non-fiction. The course will begin with early travel narratives and extend to contemporary regional novels.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 340-3 Postcolonial Literature Literature in English written in one or more of the following regions: Africa, the Caribbean, India, Australia, New Zealand. An introduction to postcolonial literatures, their definitions of culture, and their relation to the British Empire.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 350-3 Comparative Literature This course will cover works in world literature (written in English and other languages), in the context of various literary periods, including: Greek tragedy, European Romanticism, French naturalism, postcolonial literatures.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 351-3 Russian Literature in Translation A study of Russian literature of the nineteenth and twentieth centuries in translation. The course may focus on a specific author(s), or a period, genre, theme or region.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 370-3 Scientific Writing Essay and report writing and oral presentations for those in technical professions. The emphasis will be on the practical applications of writing and speaking.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 381-3 Renaissance Literature An advanced version of the 200 level course, with a particular emphasis on the interaction between the visual and written art forms.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 382-3 Restoration and 18th Century Literature An intensive study of two or three authors or of a major genre, form or theme of the period.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 383-3 Romantic Literature An intensive study of two or three authors or of a major genre, form or theme of the period.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 384-3 Victorian Literature An intensive study of two or three authors or of a major genre, form or theme of the period.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 385-3 Twentieth-Century American Literature

American writing since 1900, with an emphasis on the American cultural context. The course may focus on a specific author(s), on a particular genre, theme or region, or on ethnic and minority literature.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 386-3 Pre-Twentieth-Century American Literature

A study of American writing in its historical contexts. The course may include Colonial literature, Contact literature, literature of the American Renaissance, African-American slave narratives, and transcriptions of Native oral literatures.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 390-3 Language The structure and development of the English language from its beginnings to the present, with close reference to literary texts.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 400-3 Contemporary Theory An advanced study of current theoretical modes, including feminism and gender theory, deconstruction, postcolonial theory, discourse analysis, new historicism and Marxist theory, psychoanalytic theory, and cultural studies. The course includes an investigation of the critical positions of contemporary theorists.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 410-3 Women and Literature Contemporary women writers and their work, emphasizing their cultural diversity and considering them in the context of feminist theory. Writers may include Nadine Gordimer, Joy Kogawa, Amy Tan and Louise Erdrich.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 420-3 First Nations Literature This course looks at contemporary First Nations writers and their work. Writers may include Thomas King, Gerald Vizenor, Leslie Silko, Louise Erdrich and others.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 430-3 Canadian Literature An advanced course in contemporary, multicultural Canadian literature. Authors may include Rohinton Mistry, Rudy Wiebe, Aritha van Herk, Joy Kogawa, Marlene Nourbese Philip.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 440-3 Postcolonial Literature I An advanced course in the main issues of postcolonial literature, such as postcolonial nationalism and English versus native languages.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

Precluded: ENGL 640-3

ENGL 441-3 Postcolonial Literature II Special topics in postcolonial literature, including colonial mimicry and the politics of assimilation.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

Precluded: ENGL 641-3

ENGL 444-(2-6) Internship May be repeated for credit (maximum six credit hours).

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 450-3 Comparative Literature An advanced version of the 300 level course, focusing on a specific genre, theme or period.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 460-3 Children's Literature An advanced version of the 200 level course.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 470-3 Creative Writing - Poetry Lectures and workshops in the craft of writing poetry.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 471-3 Creative Writing - Fiction and Creative Non-Fiction Lectures and workshops in the craft of writing fiction and/or creative non-fiction.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

COURSE DESCRIPTIONS: ENGLISH, ENVIRONMENTAL STUDIES

ENGL 472-3 Creative Writing - Drama and Script-Writing Lectures and workshops in the craft of writing drama and script-writing.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 480-3 Science Fiction A study of the structures and motifs of science fiction and fantasy.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 482-3 Literature of First Contact Aspects of the first contact of empire and colony. Texts may include Shakespeare's *The Tempest*, Behn's *Orinoco*, Defoe's *Robinson Crusoe*, and modern historical fictions. These may be contrasted with historical and revisionist accounts of the nineteenth and twentieth centuries.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

Precluded: ENGL 682-3

ENGL 484-3 Victorian Studies A study of an author (or authors), theme or genre in Victorian literature. Possible authors include George Eliot, Charles Dickens, or the Brontës. Possible topics include social realism, psychological realism, violence and domestic realism, fictional autobiography, Victorian Gothic, and female self-expression.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

Precluded: ENGL 684-3

ENGL 486-3 Literature of the Fantastic Various periods and aspects of fantastic literature. When appropriate, the course will include film and graphic arts as well as literary texts.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

Precluded: ENGL 686-3

ENGL 491-3 Renaissance Literature A study of various aspects of Renaissance literature and art. The focus could be on the works of a specific author, a genre, or theoretical considerations.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

Precluded: ENGL 691-3

ENGL 493-3 Cultural Studies An introduction to the interdisciplinary methodologies of cultural studies, with a

focus on definitions of culture and the imbrications of race, class, and gender. An exploration of the themes of postmodernism, popular culture, historical cultural formations, social history, the relation between politics and culture.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

Precluded: ENGL 693-3

ENGL 498-(3-6) Special Topics in Literature (up to 6 credits) Consult the Program Chair for details.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

ENGL 499-3 Independent Study in Literature Consult the Program Chair for details.

Prerequisites: two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

■ Environmental Studies

ENVS 100-3 Environments and People This course is intended to provide students with an interdisciplinary understanding of earth and environmental processes and the results of human intervention in these processes. This includes the changing relationship of humans with the natural world and different approaches to understanding and solving environmental problems, local to global. It investigates such issues as human populations, loss of biodiversity, air and water pollution, energy use, climate change and ozone depletion.

Prerequisites: none

Precluded: GEOG 100-3

ENVS 104-3 Introduction to Planning This course introduces students to the practice of planning and an overview of the history, techniques and applications in planning. The course emphasizes the role of the public, politicians, and planners in the field of planning.

Prerequisites: none

ENVS 201-3 Introduction to Atmospheric Science Weather and climate are key physical determinants of many human and natural systems. This course will explain the fundamental processes of weather and climate at all temporal and spatial scales, and will lead the student toward an understanding of how the atmosphere works. Topics covered include: atmospheric energy, solar and terrestrial radiation, the "Greenhouse Effect," stratospheric ozone, humidity, clouds, precipitation, stability and atmospheric statics, geostrophic wind and atmospheric dynamics.

Prerequisites: Physics 12 or CORE 102-3 or 100 level PHYS

ENVS 202-3 Introduction to Aquatic Systems Aquatic systems are central to all areas of life, as well as human endeavours. In addition to being the site of our earliest evolution, aquatic systems are now recognized as fundamental to the regulation of atmospheric gases and so our climate. This course will provide a broad overview of the physical, chemical, geological, and biological aspects of freshwater and marine systems. Human perspectives will focus on the conservation and exploitation of the resources found within and below lakes, rivers and oceans. Introduction to Aquatic Systems will provide a foundation for students wishing to pursue advanced courses in any area of aquatic study.

Prerequisites: BIOL 102-4, CHEM 101-3

Recommended: PHYS 100-4 and Math 100-3 or MATH 152-3 or permission of the instructor

ENVS 203-3 Environmental Policy Global, national and regional environmental issues and policy.

Prerequisites: ENVS 100-3/GEOG 100-3, POLS 100-3 or permission of the instructor

ENVS 204-3 Principles and Practices of Planning History, theory, methods and processes in regional planning; contemporary issues and professional practices.

Prerequisites: ENVS 104-3 or permission of instructor

ENVS 205-3 Environment and Society Interactions between humans and their environments; societal responses to environmental change, both naturally and anthropogenically induced.

Prerequisites: none

ENVS 301-3 Sustainable Communities: Structure and Sociology Organization, function, change, development and decline of communities; applications emphasizing rural and urban settings.

Prerequisites: none

ENVS 302-3 Energy Development An overview of different types of energy uses and the environmental consequences of development. The course will focus on energy development in Western Canada with respect to oil, gas, hydro, and coal. Alternative energy futures will also be examined.

Prerequisites: 30 credit hours

ENVS 305-3 Environmental Impact Assessment Analysis of environmental impact statements and their legal framework; methods of environmental assessment.

Prerequisites: 60 credit hours

ENVS 306-3 Human Ecology A review of ecological theory and research methods as they pertain to problems facing human societies today.

Prerequisites: 60 credit hours or permission of the instructor

ENVS 307-3 Physical Ecology Physical and functional perspectives in ecology. An interdisciplinary treatment of the links between how organisms evolve and live under the influence of physical phenomena.

Prerequisites: BIOL 201-3, MATH 152-3 or 100-3, and PHYS 100-4 or 110-4 or permission of the instructor

ENVS 308-3 Northern Environments An examination of the physical, natural, and social systems in the north with an emphasis on environmental issues.

Prerequisites: 60 credit hours

ENVS 309-3 Women and Environmental Studies An analysis of various perspectives on women in science and women in environmental studies, including concepts such as ecological feminism.

Prerequisites: none

ENVS 311-3 Northern Perspectives Viewpoints and issues particularly relevant to environmental issues and planning activities in northern BC.

Prerequisites: none

ENVS 312-3 Boundary-layer Meteorology Principles of weather and climate at micro-, local, and meso-scales; processes associated with transfer of heat, mass, and momentum and resulting climates near the surface; fog, urban and forest climates, bioclimatology, local winds, transport and dispersion of air pollution.

Prerequisites: ENVS 201-3 and 100 level MATH or PHYS or permission of instructor

ENVS 318-3 Professional Planning Practice To provide an overview of the professional skills required in the practice of planning. The course examines the ethical role of the planner and provides an in-depth assessment of the municipal and sectoral planning environment.

Prerequisites: ENVS 204-3 and 60 credit hours

ENVS 401-3 Environmental Law International, national and provincial environmental law. Interpretation and application. Advised for pre-law students.

Prerequisites: POLS 100-3

ENVS 402-3 Terrain Assessment An evaluation of different techniques used to classify terrain, including an understanding of the dynamics of land surface processes, the impacts of development, applied remediation methods, and the use of terrain information for site and land use planning.

Prerequisites: GEOG 210-3 and 60 credit hours

ENVS 404-3 Hazardous Waste Management Environmental, technical and political aspects of hazardous

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and solid waste management. Evaluative methods, risk assessment and current legal and management requirements.

Prerequisites: 60 credit hours

ENVS 405-3 Advanced Environmental Assessment An examination of current methods used in planning and project development for environmental assessment. This course will focus on applied research using case studies.

Prerequisites: ENVS 305-3

ENVS 406-3 Ecological Modelling To develop an understanding of theoretical and mathematical approaches to ecosystems and ecological processes. Laboratory exercises will complement lecture topics and focus on the development of computer-based modelling skills.

Prerequisites: BIOL 201-3 and MATH 100-3 and MATH 101-3 or MATH 152-3 or permission of the instructor

ENVS 408-3 Macro-meteorology Analysis and dynamics of synoptic weather systems; cyclones and cyclogenesis; fronts, thunderstorms, jet streams and stability; thermodynamic charts, satellite imagery and forecasting; aspects of global climates and el nino. May be taught alternate years.

Prerequisites: ENVS 201-3, 312-3 or 200 level MATH or PHYS or permission of the instructor

ENVS 410-3 Land Use Planning An evaluation of land use planning at the federal, provincial, and municipal levels. The course will familiarize students with theories of property rights and their applications to land use planning and tenure systems.

Prerequisites: 60 credit hours and ENVS 204-3 or permission of instructor

ENVS 411-3 Planning Theory, Process and Implementation Theories of planning and how theory informs planning practice. How planners manage planning processes, how plans are implemented. Use of communicative skills important in expediting implementation within the political environment of planning practice.

Prerequisites: 60 credit hours and ENVS 204-3 or permission of the instructor

ENVS 412-3 Air Pollution A multidisciplinary course focusing on air pollution: emissions, chemistry, air pollution meteorology and dispersion modelling, engineering and legislative controls, health effects, airshed planning.

Prerequisites: ENVS 201-3, 312-3, or permission of instructor

Precluded: ENVS 612-3

ENVS 413-3 Environmental Planning Investigates the theory and methods of environmental and ecological

planning. The focus will be on the Prince George region and students will get hands-on experience by working on a real plan to address a current theme or issues.

Prerequisites: ENVS 204-3 and 60 credit hours or permission of the instructor

ENVS 414-3 Environmental and Professional Ethics Analysis of environmental and natural resource issues from an ethical perspective; viewpoints and value systems that determine management decisions; professional ethics in natural resource management.

Prerequisites: 90 credit hours or permission of the instructor
Precluded: NREM 411-3, ENVS 602-3, NREM 603-3

ENVS 415-3 Rural Planning and Design An overview of the unique planning and development dimensions of small communities and rural regions. Current planning practice and new ecological planning principles will be examined. Design and planning technologies will be utilized in the development of a landscape plan for a small community/rural region.

Prerequisites: ENVS 204-3 and 90 credit hours
Precluded: ENVS 619-3

ENVS 416-3 Ecological Economics Applies economic theory and tools to environmental problems and policies. Introduces history and basic concepts of economic thought and explores the market failures and paradigm shifts that led to ecological economics as a new framework for integrating economic and environmental concerns.

Prerequisites: ECON 100-3 and 90 credit hours
Precluded: ENVS 616-3

ENVS 418-3 Environmental Measurement and Analysis This is a capstone course for BSc Environmental Science majors. A laboratory and field based course focusing on advanced environmental measurement and analysis of atmospheric, aquatic, and terrestrial systems. Approach will be problem-oriented in which students examine a complete system (eg. pulp industry) co-operatively with students in ENVS 419-3.

Prerequisites: third year courses in statistics, chemistry and physics, and one of the following: BIOL 302-3, ENVS 307-3, 312-3, GEOG 311-3, and 90 credit hours or permission of the instructor

ENVS 419-3 Social Research Methods This is a capstone course for Environmental Studies BSc and BA majors. An overview of quantitative and qualitative research methods used in environmental studies, social sciences, and humanities, including issues such as research design, data collection techniques, data analysis and management. Approach will be problem-oriented in which students examine a complete system (e.g. pulp industry) co-operatively with students in ENVS 418-3.

Prerequisites: 90 credit hours or permission of the instructor

ENVS 420-1 Research Methodology An opportunity to examine major methodologies and to prepare a research proposal.

Co-requisites: ENVS 430-3

ENVS 430-3 Undergraduate Thesis This is an optional course, allowing students to devote time to a concentrated piece of research.

Co-requisites: ENVS 420-1

ENVS 440-(2-6) Internship May be repeated for credit (maximum six credit hours).

ENVS 498-(1-6) Special Topics Selected environmental topics. May be repeated for credit (maximum six credit hours).

Prerequisites: permission of the instructor and Program Chair

ENVS 499-(1-6) Independent Study May be repeated for credit (maximum six credit hours).

Prerequisites: permission of the instructor and Program Chair

■ First Nations Studies

UNBC's First Nations Studies courses are offered in a number of different locations: Prince George, New Aiyansh, Prince Rupert. Check the Registration Guide for locations in any particular semester.

FNST 100-3 The Aboriginal Peoples of Canada This course is an introduction to the languages, history, culture, and enduring presence of the aboriginal people of Canada, intended to explore the range of aboriginal social formations, both past and present, and to consider the future. Oral, written, and archaeological records will be examined. Special attention will be given to the crucial economic, social, and spiritual contacts that exist within aboriginal societies, as well as to materials on the changes that have occurred since the advent of the Europeans.

Prerequisites: none

FNST 131-3 A First Nations Language: Level 1 This course provides an introduction to the conversational and written elements of one First Nations language. It may be taught in a number of different sections, each of which may focus on a different language, e.g., Gitksanimx, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, or another Athabaskan language, Cree or Shushwap. Student transcripts will indicate the specific language studied.

Prerequisites: none

FNST 132-3 A First Nations Language: Level 2 This course develops the reading, writing, and speaking skills in a First Nations Language. It may be taught in a number of different sections, each of which may focus on a different language, e.g., Gitksanimx, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, Cree or other Athabaskan language, or Shushwap. Student transcripts will indicate the specific language studied.

Prerequisites: FNST 131-3 or permission of the Program Chair

FNST 133-3 Carrier Language: Level 1 This course provides an introduction to the conversational and written elements of the Carrier language.

Prerequisites: none

FNST 134-3 Carrier Language: Level 2 This course develops reading, writing, and speaking skills in the Carrier language.

Prerequisites: FNST 133-3 or permission of the Program Chair

FNST 135-3 Haisla Language (X̄a'islak'ala): Level 1 This course provides an introduction to the conversational and written elements of the X̄a'islak'ala language.

Prerequisites: none

FNST 136-3 Haisla Language (X̄a'islak'ala): Level 2 This course develops reading, writing, and speaking skills in the X̄a'islak'ala language.

Prerequisites: FNST 135-3 or permission of the Program Chair

FNST 137-3 Tsimshian Language (Sm'algyax): Level 1 This course provides an introduction to the conversational and written elements of Sm'algyax.

Prerequisites: none

FNST 138-3 Tsimshian Language (Sm'algyax): Level 2 This course develops reading, writing, and speaking skills in Sm'algyax.

Prerequisites: FNST 137-3 or permission of the Program Chair

FNST 139-3 Nisga'a Language: Level 1 This course provides an introduction to the conversational and written elements of the Nisga'a language using materials from everyday life.

Prerequisites: none

FNST 140-3 Nisga'a Language: Level 2 This course develops reading, writing, and speaking skills in the Nisga'a language.

Prerequisites: FNST 139-3 or permission of the Program Chair

COURSE DESCRIPTIONS: FIRST NATIONS STUDIES

FNST 161-3 A First Nations Culture: Level 1 This course focuses on one First Nation's culture. It may be taught in a number of different sections, each of which may focus on a different culture e.g., Haida, Gitksan, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, or other Athabaskan culture, Shushwap, Métis. Student transcripts will indicate the specific culture studied.

Prerequisites: none

FNST 162-3 A First Nations Culture: Level 2 This course focuses on one First Nation's culture. It may be taught in a number of different sections, each of which may focus on a different culture e.g., Haida, Gitksan, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, or other Athabaskan culture, Shushwap, Métis. Student transcripts will indicate the specific culture studied.

Prerequisites: FNST 161-3 or permission of the Program Chair

FNST 163-3 Carrier Culture: Level 1 This course provides an introduction to Carrier culture.

Prerequisites: none

FNST 164-3 Carrier Culture: Level 2 This course provides advanced study of Carrier culture.

Prerequisites: FNST 163-3 or permission of the Program Chair

FNST 167-3 Tsimshian Culture: Level 1 This course provides an introduction to Tsimshian culture.

Prerequisites: none

FNST 168-3 Tsimshian Culture: Level 2 This course provides advanced study in Tsimshian culture.

Prerequisites: FNST 167-3 or permission of the Program Chair

FNST 169-3 Nisga'a Culture: Level 1 This course provides an introduction to Nisga'a culture.

Prerequisites: none

FNST 170-3 Nisga'a Culture: Level 2 This course provides advanced study of Nisga'a culture.

Prerequisites: FNST 169-3 or permission of the Program Chair

FNST 171-3 Métis Studies Level One The course focuses on the Métis from their origins in the early Nineteenth Century, through the flowering of the Métis Nation on the Western Plains, to the situation of the Métis in contemporary Canadian society.

Prerequisites: none

FNST 172-3 Métis Studies Level Two: The Métis Nation and the Canadian State During this course, we will look closely at the historic and contemporary relations between the Métis, the Canadian State, and the ramifications of state policies on the maintenance of the Métis as a distinct people. We will also look at the way that Métis people, as individuals, have experienced the Canadian justice system.

Prerequisites: FNST 171-3

FNST 200-3 Methods and Perspectives in First Nations Studies An introduction to approaches to the cultures of contemporary First Nations including ethics of research and working with communities.

Prerequisites: registration as a major in First Nations Studies or permission of the Program Chair

FNST 203-3 Introduction to Traditional Environmental Knowledge Designed for students with an interest in First Nations traditional environmental knowledge (TEK). Students will develop research, writing and communication skills. The interdisciplinary course combines theory and practices from TEK literature, cultural ecology, ethnohistory and international development literature. Students will learn of particular TEK of particular interest to First Nations in northern British Columbia.

Prerequisites: FNST 100-3

FNST 205-3 Seminar in First Nations Studies Defining questions for the discipline. Major topics in the discipline will be introduced through the study of published examples by well-known contributors.

Prerequisites: registration as a major in First Nations Studies or permission of the Program Chair

FNST 206-3 First Nations Oral Literatures An introduction to oral traditions, storytelling, and the analysis of discourse structures.

Prerequisites: none

FNST 215-3 Issues in External Relations for Contemporary Indigenous Peoples An introductory survey of contemporary issues for First Nations people in BC, in Canada, and indigenous peoples of the world. Students will research and present seminars on specific issues in which governments and organizations external to the First Nation are involved, such as land rights, self-government, repatriation of cultural property, etc.

Prerequisites: FNST 100-3, or permission of the Program Chair

FNST 216-3 Issues in Internal Organization for Contemporary Indigenous Peoples An introductory survey of contemporary issues for First Nations people in BC, in Canada, and indigenous peoples of the world. Students will research and present seminars on specific issues in which decision making within First Nations is involved, such as

political organization, economic and environmental strategies, and strategies for cultural survival, etc.

Prerequisites: FNST 100-3, or permission of the Program Chair

FNST 220-3 Introduction to Linguistics An introduction to linguistics with emphasis on aspects especially relevant to students interested in native languages of northern BC.

Prerequisites: none

FNST 231-3 A First Nations Language: Level 3 This course provides an introduction to the conversational and written elements of one First Nations language. It may be taught in a number of different sections, each of which may focus on a different language, e.g., Gitksanimx, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, or another Athabaskan language, or Shushwap. Student transcripts will indicate the specific language studied.

Prerequisites: FNST 132-3, or equivalent, in the appropriate language

FNST 232-3 A First Nations Language: Level 4 This course provides an introduction to the conversational and written elements of one First Nations language. It may be taught in a number of different sections, each of which may focus on a different language, e.g., Gitksanimx, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, or another Athabaskan language, or Shushwap. Student transcripts will indicate the specific language studied.

Prerequisites: FNST 231-3, or equivalent, in the appropriate language

FNST 233-3 Carrier Language: Level 3 The development of speaking and understanding of the Carrier language, and reading and writing skills at the Intermediate level.

Prerequisites: FNST 134-3 or permission of the Program Chair

FNST 234-3 Carrier Language: Level 4 The development of speaking and understanding of the Carrier language, and reading and writing skills at the Intermediate level.

Prerequisites: FNST 233-3 or permission of the Program Chair

FNST 235-3 Haisla Language (X̱a'islaḵ'ala): Level 3 The development of speaking and understanding of the X̱a'islaḵ'ala language and reading and writing skills at the Intermediate level.

Prerequisites: FNST 136-3 or permission of the Program Chair

FNST 236-3 Haisla Language (X̱a'islaḵ'ala): Level 4 The development of speaking and understanding of the X̱a'islaḵ'ala language and reading and writing skills at the Intermediate level.

Prerequisites: FNST 235-3 or permission of the Program Chair

FNST 237-3 Tsimshian Language (Sm'algyax): Level 3 The development of speaking and understanding of Sm'algyax and reading and writing skills at the Intermediate level.

Prerequisites: FNST 138-3 or permission of the Program Chair

FNST 238-3 Tsimshian Language: Level 4 The development of speaking and understanding of Sm'algyax and reading and writing skills at the Intermediate level.

Prerequisites: FNST 237-3 or permission of the Program Chair

FNST 239-3 Nisga'a Language: Level 3 The development of speaking and understanding of the Nisga'a language, and reading and writing skills at the Intermediate level. Materials studied will include modern texts as well as tapes of elders.

Prerequisites: FNST 140-3 or permission of the Program Chair or grade 12 equivalent

FNST 240-3 Nisga'a Language: Level 4 The development of speaking and understanding of the Nisga'a language, and reading and writing skills at the Intermediate level. Materials studied will include modern texts as well as tapes of elders.

Prerequisites: FNST 239-3 or permission of the Program Chair

FNST 249-3 Aboriginal Resource Planning Designed for students who have an interest in First Nations and planning. The course will develop students' research, writing and communication skills. The interdisciplinary course combines theory and practices from traditional land use planning and First Nations practices and ideas concerning resource planning. Students will apply what they learn to issues of particular interest to First Nations in northern British Columbia.

Prerequisites: FNST 100-3

FNST 250-3 Canadian Law and Aboriginal Peoples An examination of the constitution, Indian Act, treaties, court decisions, and laws as they relate to the government and politics of aboriginal peoples.

Prerequisites: FNST 100-3 or POLS 100-3

Precluded: POLS 220-3

FNST 261-3 A First Nations Culture: Level 3 This course focuses on one First Nation's culture. It may be taught in a number of different sections, each of which may focus on a different culture e.g., Haida, Gitxan, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, or other Athabaskan culture or Shushwap. Student transcripts will indicate the specific culture studied.

Prerequisites: FNST 162-3 focusing on the same culture, or permission of the Program Chair

COURSE DESCRIPTIONS: FIRST NATIONS STUDIES

FNST 262-3 A First Nations Culture: Level 4 This course focuses on one First Nation's culture. It may be taught in a number of different sections, each of which may focus on a different culture e.g., Haida, Gitxan, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, or other Athabaskan culture or Shushwap. Student transcripts will indicate the specific culture studied.

Prerequisites: FNST 261-3 focusing on the same culture, or permission of the Program Chair

FNST 263-3 Carrier Culture: Level 3 This course provides advanced study in Carrier culture.

Prerequisites: FNST 164-3, or permission of the Program Chair

FNST 264-3 Carrier Culture: Level 4 This course provides advanced study in Carrier culture.

Prerequisites: FNST 263-3, or permission of the Program Chair

FNST 267-3 Tsimshian Culture: Level 3 This course provides advanced study in Tsimshian culture.

Prerequisites: FNST 168-3, or permission of the Program Chair

FNST 268-3 Tsimshian Culture: Level 4 This course provides advanced study in Tsimshian culture.

Prerequisites: FNST 267-3, or permission of the Program Chair

FNST 269-3 Nisga'a Culture: Level 3 This course provides advanced study in Nisga'a culture.

Prerequisites: FNST 170-3, or permission of the Program Chair

FNST 270-3 Nisga'a Culture: Level 4 This course provides advanced study in Nisga'a culture.

Prerequisites: FNST 269-3, or permission of the Program Chair

FNST 271-3 Métis Studies Level Three: Métis Communities in Town and Country In this course we look at the variety of Métis communities located in both rural and urban areas. We will examine more specifically the manner in which these communities are formed, and the challenges that they face. Our focus is on contemporary social and political issues

Prerequisites: FNST 269-3

FNST 272-3 Métis Studies Level Four: Working with Métis Communities This class is designed to both develop and apply a set of research skills and competencies for working with Métis Communities. In the first year of the course, we will be working on a research project in

conjunction with members of the Métis community of Prince George, on the history of the Island Cache, an urban Métis Community which existed in Prince George until 1973. The general design of the course is intended to both serve the research project we will undertake, and be flexible enough that should a similar project be requested by another Métis community, the course can be adapted to the specific purposes of future needs.

Prerequisites: FNST 269-3

FNST 298-(1-3) Special Topics in First Nations Studies

Prerequisites: permission of Program Chair

FNST 300-3 Research Methods in First Nations Studies

Major methodologies such as participant observation, archival research, questionnaires and statistical analysis will be reviewed and considered in the light of other goals of the discipline.

Prerequisites: FNST 200-3

FNST 301-3 Art and Material Culture of BC First Nations

A survey of major sources in the literature on First Nations art and material culture with an emphasis on contemporary forms. First Nations artists will participate in the seminar.

Prerequisites: upper division standing

FNST 302-3 First Nations Health and Healing A seminar on the concepts of health and healing including a review of major published materials. Representatives of First Nations communities and organizations will participate in the seminar.

Prerequisites: upper division standing

FNST 303-3 First Nations Religion and Philosophy

A seminar on philosophy and religion in First Nations cultures. First Nations representatives will participate in the seminar.

Prerequisites: upper division standing

FNST 304-3 First Nations Environmental Philosophy and Knowledge A seminar on the knowledge and attitudes about the environment in First Nations cultures. First Nations representatives will participate in the seminar.

Prerequisites: upper division standing

FNST 305-3 Seminar in First Nations Studies Sources for the development of the discipline. The theoretical approaches of major contributors to the discipline will be examined in the context of theory in allied disciplines such as anthropology, literature and cultural studies.

Prerequisites: registration as a major or permission of the Program Chair

FNST 310-3 Lisims Anadromous Summer and Fall Fisheries in Nisga'a Culture and History This course provides an opportunity to study the relationship between Nisga'a and anadromous summer and fall fisheries, primarily Salmonids. The course content focuses on Nisga'a culture, history, environmental philosophy and knowledge of these fisheries. Course content will include a holistic discussion of the fisheries, including such topics as spirituality, politics and diplomacy, traditional science and technology, and fisheries resource management. Students already receiving credit in FNST 304-3 at WVN prior to passage of this motion will not be eligible to receive credit in FNST 310-3.

Prerequisites: FNST 100-3 or FNST 169-3 or permission of the Chair

FNST 311-3 The Spring Anadromous Fisheries of Lisims in Nisga'a Culture and History This course provides an opportunity to study the relationship between Nisga'a and spring anadromous fisheries. The focus will be on important fisheries of oolichan and early salmon, such as steelhead. The course content will focus on Nisga'a culture, history, environmental philosophy and knowledge of these fisheries. Course content will include a holistic discussion of the fisheries, including such topics as spirituality, politics and diplomacy, traditional science and technology, and fisheries resource management. Students already receiving credit in FNST 498-3 at WVN prior to passage of this motion will not be eligible to receive credit in FNST 311-3.

Prerequisites: FNST 100-3 or FNST 169-3 or permission of the Chair

FNST 320-3 The Structure of a First Nations Language An introduction to the linguistic structure of a First Nations language—words, phrases and sentences. Student transcripts will indicate the specific language studied.

Prerequisites: FNST 220-3

FNST 321-3 First Nations Advanced Composition and Conversation, Level 1 Advanced composition and conversation, using texts and tapes including poetry.

Prerequisites: level 4 (or equivalent) in the appropriate First Nations language

FNST 322-3 First Nations Advanced Composition and Conversation, Level 2 Advanced composition and conversation, using texts and tapes including poetry.

Prerequisites: FNST 321-3

FNST 323-3 First Nations Advanced Translation and Transcription Translation and transcription from English to a First Nations language and back.

Prerequisites: advanced knowledge of a First Nations language satisfactory to the instructor

FNST 400-3 Community-based Research Project Applying First Nations Research Methods Group projects will be undertaken in partnership with a community or organization under the supervision of a faculty member.

Prerequisites: FNST 300-3

FNST 405-3 Advanced Seminar in First Nations Studies: Extending the Discipline A seminar on the theory and practice of First Nations Studies emphasizing critiques of theory; this seminar is an excellent preparation for graduate training.

Pre- or co-requisites: FNST 400-3

FNST 406-3 Comparative Rhetoric and Discourse A seminar in which examples of contemporary rhetoric will be considered as aesthetic performances and as cultural performances.

Prerequisites: FNST 202-3 and 212-3

FNST 407-3 First Nations Perspectives on Race, Class, Gender and Power An advanced seminar in which First Nations writings regarding experience of race, class, gender, and power will be discussed in relation to contemporary theory.

Prerequisites: upper division standing or permission of the Chair

FNST 416-3 International Perspective Indigenous Issues in International Perspective. An advanced seminar in which issues such as land rights, relations to nation states, and cultural harmony are examined by presenting cases from a variety of indigenous groups. This course may be taught as 416-3/606-3.

Prerequisites: FNST 100-3 or permission of the instructor

FNST 420-3 Developing Language Materials A presentation of design goals and practical considerations in the preparation of reference and pedagogical materials for poorly documented languages, with an emphasis on languages of northern BC.

Prerequisites: FNST 220-3

FNST 421-3 First Nations Songs and Poetry A study of songs and poetry in a First Nation's language.

Prerequisites: level 4 (or equivalent) in the appropriate First Nations language

FNST 422-3 First Nations Speeches and Stories A study of speeches and stories in a First Nation's language. Analysis of the various linguistic variations which accompany different kinds of speeches and stories.

Prerequisites: level 4 (or equivalent) in the appropriate First Nations language

COURSE DESCRIPTIONS: FIRST NATIONS STUDIES, FORESTRY

FNST 423-3 A Study of a First Nation's Language Family and Its Linguistic Relatives This course will include: a survey and comparison of the languages in a particular language family; the evidence for the genetic affiliation of the languages; the correspondences among the languages and reconstruction of the proto-language; the evidence for subgrouping; discussion of possible remoter relations of the family; interaction with neighboring languages; implications for prehistory.

Prerequisites: level 4 (or equivalent) in the appropriate First Nations language

FNST 424-3 The Literature of a First Nation A study of a First Nation's literature in a First Nation's language.

Prerequisites: level 4 (or equivalent) in the appropriate First Nations language

FNST 440-(3-6) Internship in First Nations Studies May be repeated once for a total of six credit hours.

Prerequisites: permission of the Program Chair

FNST 451-3 Traditional Use Studies An advanced seminar on traditional use studies, their use, application, and development. The seminar will examine the origins and development of this field, review case studies and recent applications, and contemporary policies.

Prerequisites: ANTH 101-3 or FNST 100-3 or permission of instructor

Precluded: ANTH 451-3, ANTH 651-3, FNST 651-3

FNST 497-(3-6) Senior Project in First Nations Studies

Prerequisites: must be in final year of study and majoring in First Nations Studies; permission of Program Chair

FNST 498-3 Special Topics in First Nations Studies

Prerequisites: permission of the Program Chair

FNST 499-3 Independent Study in First Nations Studies

Prerequisites: permission of the Program Chair

■ Forestry

FSTY 201-4 Plant Systems Identification and ecology of important forest plants (woody and herbaceous); attributes significant to vegetation management. Field trips required. Includes development of a plant collection.

Prerequisites: BIOL 102-4

Co-requisites: FSTY 205-3

FSTY 205-3 Forest Soils Chemical, physical, and biological properties of forest soils; fundamentals of soil formation; soil-water-plant relations, soil ecology and soil fertility. Field trips required.

Prerequisites: CHEM 100-3, 101-3, 120-0.5, 121-0.5

FSTY 206-3 Forest Biology Biology and ecology of forest ecosystems; structure and function of forest trees and stands; influence of biotic and abiotic factors on tree and stand growth.

Prerequisites: BIOL 102-4

FSTY 208-3 Silvics Physiology and life history of trees, silvicultural attributes of tree species of Western Canada, ecological site quality, applications in silviculture.

Prerequisites: FSTY 201-4

Co-requisites: FSTY 206-3

FSTY 302-3 Forest Harvesting Systems Forest harvesting concepts and practices. Road building, machine and cable systems and horse logging. Field trips required.

Prerequisites: CPSC 110-3, FSTY 205-3, and 305-3

Co-requisite: FSTY 310-3

Precluded: FSTY 402-3

FSTY 305-3 Silviculture I Stand dynamics, natural and artificial regeneration methods, site preparation, intermediate stand treatments, relationships of natural resource management to silviculture practices. Field trips required.

Prerequisites: FSTY 201-4, 205-3, 206-3, 208-3, NREM 203-3

FSTY 307-4 Forest Health Principles and concepts of forest entomology and forest pathology. Processes for addressing forest health problems. Field trips required.

Prerequisites: 60 credit hours, FSTY 201-4 and FSTY 208-3

FSTY 309-3 Fire Ecology and Management Physical nature and behaviour of forest fire (natural and prescribed). Fire ecology and practices of forest fire management. Field trips required.

Prerequisites: ENVS 201-3 and FSTY 201-4 or BIOL 301-3

FSTY 310-4 Resource Valuation Contemporary issues in the allocation of natural resources. Economic concepts and tools applied to the forestry, recreation, and other natural resource sectors.

Prerequisites: ECON 100-3

Precluded: RRT 310-4

FSTY 333-3 Field Camp Field applications of integrated resource management principles.

Prerequisites: none

Precluded: BIOL 333-3 and RRT 333-3

FSTY 405-3 Silviculture II Factors influencing forest yields, traditional production methods; growth and yield simulations. Exploration of stand dynamics, quantitative implications of management treatments and environmental limitations to tree and stand growth.

Prerequisites: NREM 203-3, MATH 152-4, 342-3 and FSTY 305-4

FSTY 407-3 Forest Products Properties, values and processing of forest products including wood, pulp and paper, pharmaceuticals, and other botanical products. Life cycle analysis of products manufactured from wood and its derivatives. Value-added strategies and product diversification through manufacturing and marketing. Field trips required.

Prerequisites: CHEM 100-3 and 101-3

FSTY 408-3 Forest Practices and Management Principles and operational practices for the management of forest land including forest estate planning, harvest scheduling, and legislative requirements.

Prerequisites: FSTY 302-3

Co-requisites: FSTY 405-3

FSTY 425-3 Soil Formation and Classification

Examination of soil formation with emphasis on environmental forces including human activity as a factor of soil formation; distribution and classification of soils of northern and interior BC; correlation of Canadian System of Soil Classification with international systems of classification such as Soil Taxonomy and FAO/UNESCO Soil Map of the World. Field trips required.

Prerequisites: FSTY 205-3 or permission of the instructor

Precluded: NREM 625-3

FSTY 440-(2-6) Internship May be repeated for credit (maximum six credit hours).

FSTY 455-3 Biogeochemical Processes in Soil Systems

Principles, components and measurement of physical, chemical and biological processes in soils. Biogeochemical processes will be related to forest fertility and environmental quality concerns such as pollution of soil and water.

Prerequisites: FSTY 205-3 or permission of the instructor

Precluded: NREM 655-3

FSTY 498-3 Special Topics May be repeated for credit (maximum three credit hours).

FSTY 499-(1-6) Independent Study May be repeated for credit (maximum of six credit hours).

■ **Geography**

GEOG 100-3 Environments and People This course is intended to provide students with an interdisciplinary understanding of earth and environmental processes and the results of human intervention in these processes. This includes the changing relationship of humans with the natural world and different approaches to understanding and solving environmental problems, local to global. It investigates such issues as human populations, loss of biodiversity, air and water pollution, energy use, climate change and ozone depletion.

Prerequisites: none

Precluded: ENVS 100-3

GEOG 200-3 Geography of BC An introduction to the biophysical and human landscapes of British Columbia with a special emphasis on the relationship of northern BC to the rest of the province. This course will take a regional approach to understanding the links between the physical geography of the province and settlement patterns, resource use and economic development.

Prerequisites: none

GEOG 201-3 Human Geography An introduction to the major traditions, themes and theories of human geography. Emphasis is placed on the concepts and methods used to understand the human environment at a range of geographic scales.

Prerequisites: none

GEOG 202-3 Economic Geography The central focus of this course is the spatial organization of economic activity with particular attention to resource use systems and regional economic development. The course will also provide a survey of the theories and methods which inform contemporary economic geography.

Prerequisites: none

GEOG 203-3 Geography of Canada A regional approach is used to examine the economic, political, cultural and environmental factors shaping relationships between people and places in Canada. A central concern is with the geographic patterns of regional development and change.

Prerequisites: none

GEOG 205-3 Spatial Data Techniques This course focuses on the cartographic presentation of geographic data, methods of data gathering, manipulation and display including elements of surveying, cartography, aerial photography, GIS and remote sensing.

Prerequisites: none

GEOG 210-3 Geomorphology The nature and formation of major landforms of the Earth's surface. Consideration is given to rock weathering and slope movement, erosional and depositional effects of wind, wave-action, water and ice movement.

Prerequisites: PHYS 115-4, Grade 12 Physics, CORE 102-3, or permission of instructor

GEOG 300-3 Geographical Information Systems This course provides an introduction to GIS technology, data input, analysis, database management and output; digital terrain models and data integration.

Prerequisites: GEOG 205-3 or permission of instructor

GEOG 301-3 Cultural Geography An examination of how the human organization of space differs across cultures. Cultural landscapes, culture regions, patterns and processes

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of cultural change and interactions, as well as the control of space and creation of place, will be central course themes. This course is a writing intensive course.

Prerequisites: GEOG 100-3 or 201-3 or permission of instructor

GEOG 302-3 Geography of Russia Interaction of the physical and human landscapes of Russia. Emphasis on changing spatial relations in the post-Soviet period, nationality issues, and the environment.

Prerequisites: GEOG 100-3 or permission of instructor

GEOG 303-3 Recreational Geography Geographic input to outdoor recreation; behavioural spatial approaches to participation and conflict in resource use, social and ecological carrying capacity and recreation space management.

Prerequisites: GEOG 100-3 or 201-3

GEOG 304-3 Social Geography The course will survey the theoretical and methodological frameworks in contemporary social geography. Emphasis will be given to examining patterns of change in society by exploring the everyday experience of social groups defined on the basis of social class, ethnicity and “race,” household and family status, gender, and community.

Prerequisites: GEOG 100-3 or 201-3 or permission of the instructor

GEOG 305-3 Political Geography This course provides an introduction to the field of political geography by examining two principal interacting factors: spatial location and political decision-making. In order to explore these interactions, a variety of scales, from the global—to the national—to the local, will be considered.

Prerequisites: GEOG 100-3 or 201-3 or permission of instructor

GEOG 306-3 Geography of International Development Geographic perspective on contemporary world problems and events, with emphasis on spatial components of economic and political relationships among regions and countries. Issues examined will include population dynamics, resource distribution, economic development and political stability.

Prerequisites: GEOG 100-3 or 201-3 or permission of instructor

GEOG 307-3 Historical Geography of Canada A detailed look at Canada from the beginning of European contact stressing the changing geographical patterns of settlement, economy and culture.

Prerequisites: GEOG 100-3 or 201-3 or permission of instructor

GEOG 310-3 Hydrology This course is an introduction to hydrology and will include the components of the hydrological cycle, an investigation of the processes of water movement and storage, and an introduction to drainage basin form and process.

Prerequisites: ENVS 201-3

GEOG 311-3 Advanced Geomorphology [formerly GEOG 410-3] Process geomorphology, including: weathering, fluvial, glacial, periglacial, and near-shore marine processes. Emphasis will be on geomorphologic processes associated with Canadian landforms. Field trips may be required.

Prerequisites: GEOG 210-3 and PHYS 100-3

GEOG 401-3 Resource Geography Global resources and their role in questions of conservation and development. Emphasis on global/international resource issues.

Prerequisites: GEOG 201-3 or permission of the instructor

Precluded: GEOG 601-3

GEOG 402-3 Geography of the Circumpolar North This course examines evolving spatial patterns of human occupancy of the North; social, economic and political dimensions of development in the Circumpolar North in light of physical environment; impacts of internal colonialism; geographical perspectives on Northern self-determination movements.

Prerequisites: GEOG 201-3 and 60 credit hours, or permission of the instructor

Precluded: GEOG 602-3

GEOG 403-3 Aboriginal Geography An analysis of aboriginal land and resource tenure systems, processes of land alienation, and First Nations methods used for regaining control over land and resources, including “land claims.” Case studies drawn from First Nations in Canada, the Circumpolar North, and other world regions.

Prerequisites: GEOG 201-3 and 60 credit hours, or permission of the instructor

Precluded: GEOG 603-3

GEOG 405-3 Fluvial Geomorphology An investigation of river channel morphometry and landforms developed by running water: a focus on the physical processes and techniques of measurement. Weekend field trips required.

Prerequisites: GEOG 310-3

Precluded: GEOG 605-3

GEOG 411-3 Geomorphology of Northern BC The geomorphology of this region with emphasis on the Quaternary history and relevant glacial and fluvial processes. Special topics, which vary from year to year, will be a component of this course. Field trips required.

Prerequisites: GEOG 210-3, 311-3

Precluded: GEOG 611-3

GEOG 412-3 Geomorphology of Cold Regions A detailed look at the processes and landforms of cold regions.

Prerequisites: GEOG 210-3 or permission of the instructor
Precluded: GEOG 612-3

GEOG 413-3 Advanced GIS A project oriented course following on from GEOG 300-3 and including topics such as spatial data set construction, data conversion, advanced digital elevation modelling, visualization and integration of raster imagery.

Prerequisites: GEOG 300-3 or permission of the instructor
Precluded: GEOG 613-3

GEOG 414-3 Weathering Processes A detailed investigation of weathering processes and their applied aspects.

Prerequisites: GEOG 311-3
Precluded: GEOG 703-3

GEOG 422-3 Geography of World Trade This advanced seminar course develops an economic geography interpretation of issues related to economic restructuring within the global economy. Specific topics include industrial location theory, uneven development, and the role of public policy and international trade agreements.

Prerequisites: GEOG 202-3 or permission of the instructor
Precluded: GEOG 622-3

GEOG 432-3 Remote Sensing Digital processing of satellite imagery and integration with raster and vector GIS technology in natural resources and remote sensing of the environment. Topics include sensor platforms and data collection, pre-processing, enhancement, classification, change detection, multi-data integration and vectorization.

Prerequisites: GEOG 205-3 or GEOG 300-3 or permission of the instructor
Precluded: GEOG 632-3

GEOG 424-3 Social Geography of Northern Communities An analysis of the social geography of communities within the specific context of the North. This course will emphasize case study research drawing upon examples from northern BC.

Prerequisites: GEOG 304-3 or permission of the instructor
Precluded: GEOG 624-3

GEOG 430-(3-6) Undergraduate Thesis Student must have completed at least 90 credit hours of study and be a Geography Major. The thesis may be taken in one or two semesters in the senior year.

Prerequisites: permission of the instructor and the Program Chair

GEOG 440-(2-6) Internship May be repeated for credit (maximum six credit hours).

GEOG 498-(1-3) Special Topics May be repeated for credit (maximum three credit hours).

GEOG 499-(3-6) Independent Studies Concentration on a particular topic agreed upon by a member of the faculty and the student (maximum six credit hours).

Prerequisites: permission of the Program Chair

■ Health and Human Science

HHSC 110-3 Basic Microbiology Presents the basic principles of microbiology with an emphasis on the relevance of these principles to human health. A survey of the major types of microorganisms and a discussion on how they are classified and identified is addressed. An introduction to virology and bacterial metabolism including environment factors which affect microbial growth and survival, is presented. A laboratory component is included.

Prerequisites: Biology 12 and Chemistry 11

HHSC 111-3 Anatomy and Physiology I This course is the first half of a comprehensive survey of the structures and functions of the human organ systems. Lecture topics include cellular physiology, histology, and studies of the integumentary, skeletal, nervous and endocrine systems. A laboratory component is included. This course is appropriate for students who intend to enter Health Sciences programs.

Prerequisites: Biology 12 and Chemistry 11

HHSC 112-3 Anatomy and Physiology II This course is a continuation of HHSC 111-3. It is designed to cover the anatomy and physiology of the muscular, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Emphasis is on the importance of homeostasis and how it is maintained by the concerted proper functioning of the body systems. A laboratory component is included.

Prerequisites: HHSC 111-3

HHSC 420-3 Interdisciplinary Child Welfare Practice This elective course will identify and provide opportunities to practice the skill, knowledge, abilities and beliefs necessary for collaborative, interdisciplinary practice in child welfare. The course will explore the meaning, context and skills of interdisciplinary practice. It will provide opportunities for understanding the rationale for interdisciplinary practice as well as exploring a critical analysis of interdisciplinary practice. Finally, it will provide opportunities to understand the perspectives and interdependence of the differing disciplines as they relate to child welfare.

Prerequisites: upper division undergraduate standing

■ History

HIST 100-3 Headlines in History An introduction to History through the examination of contemporary issues in their historical context.

Prerequisites: none

HIST 110-3 Indigena This course provides an introduction to the history of indigenous peoples around the world, particularly in North America, northern Europe, Siberia, and the Pacific.

Prerequisites: none

HIST 150-3 The Emergence of the Contemporary World

This course explores the conflicting identities and aspirations of local, national, and international groups and communities in the twentieth century. The themes of ethnicity, nationalism, imperialism, internationalism, and decolonization are explored from a global perspective, with a particular emphasis on the two world wars, the cold war, and political ideologies.

Prerequisites: none

HIST 200-3 Historical Methodology: An Introduction to the Work of the Historian

This course will focus on learning how to read critically both primary sources (documents generated by the people historians study) and secondary sources (articles and books generated by historians and other scholars).

Prerequisites: none

HIST 210-3 Canada Before Confederation The political, social and economic development of Canada from the first contact with Native people to 1867.

Prerequisites: none

HIST 211-3 Canada Since Confederation The development of Canada from 1867, with emphasis on social movements, economic development, politics and political protest, and regionalism.

Prerequisites: none

Precluded: HIST 201-3

HIST 221-3 United States from Colonization to 1877 An introduction to the formation of the United States from colony to nation, addressing themes of cultural, social, political and economic history and the relationships among Aboriginal, African and European peoples.

Prerequisites: none

HIST 222-3 The United States Since 1877 An introduction to the formation of the United States after the Reconstruction Period addressing themes of cultural, social, political and economic history.

Prerequisites: none

HIST 230-3 Medieval and Renaissance Europe An introduction to the cultural, spiritual, social and political life of Europe from the 5th century to the 15th.

Prerequisites: none

HIST 240-3 The Expansion of Europe The expansion of Europe from the Renaissance to the French Revolution. Themes to be explored include the growth of the early modern state, economic growth and technological innovation, military development and international conflict, and the relationship between religion and expansion. The creation of European empires and settlements in the western hemisphere will be highlighted.

Prerequisites: none

HIST 241-3 The Age of Empire: Europe and the World, 1789-1914 A survey of relations between Europe and Asia, Africa and the Americas from the French Revolution to the First World War.

Prerequisites: none

HIST 255-3 The Circumpolar World An introduction to nature of nordicity through the history of areas such as northern Canada, Alaska, the Nordic Countries, and Siberia.

Prerequisites: none

HIST 260-3 An Introduction to Environmental History

This course will examine the relationship between humans and the natural environment from a historical perspective. The effects of the environment on human imagination and the impact of human activities on the environment will be considered in a variety of historical settings.

Prerequisites: none

HIST 270-3 An Introduction to the History of Gender

The course will explore issues of gender in historical context using a case study approach.

Prerequisites: none

HIST 300-3 Historiography: The Nature of the Historical Discipline Students in this course will examine the nature of history as a discipline of study and how historians approach their craft.

Prerequisites: two history courses or permission of the instructor

HIST 301-3 The Canadian North The history of the provincial and territorial Canadian North with emphasis on the pre-contact period, Native-white relations, and the impacts of government on the region.

Prerequisites: two history courses or permission of the instructor

HIST 302-3 Western Canada The history of the four western provinces from the coming of Europeans to the present with emphasis on Native peoples, the fur trade, the development of society and the economy, political protest and regional alienation.

Prerequisites: two history courses or permission of the instructor

HIST 320-3 The Western United States This class focuses on social relations in the US West from pre-contact times to the present and on the West's mythical place in US history.

Prerequisites: two history courses or permission of the instructor

HIST 321-3 Modern US Social and Intellectual History Students taking this class will study the main social and intellectual movements in the United States from the mid-nineteenth century to the present.

Prerequisites: two history courses or permission of the instructor

HIST 355-3 Russian Imperial History This course explores the history of Imperial Russia from the eleventh century to the Russian Revolutions of 1917. It focuses on Russia and its expansion, covering a range of themes from centre-periphery relations, Aboriginal peoples, the peasantry, women, and revolution, with a particular focus on the north.

Prerequisites: two history courses or permission of the instructor

HIST 356-3 Soviet History This course will explore the history of the Soviet Union from the Bolshevik Revolution of 1917 to breakup. Themes focus on the development of the Soviet Union, emphasizing Soviet power and its impact on peripheral areas, Aboriginal peoples, nationalism, women, and culture, with particular focus on the north.

Prerequisites: two history courses or permission of the instructor

HIST 357-3 Scandinavian History This course surveys the history of this Northern European region from the Viking Age to the present, with particular attention to imperial expansion, nation-building, Aboriginal people's responses to conquest, women, and the rise of the welfare state.

Prerequisites: two history courses or permission of the instructor

HIST 400-3 Aboriginal People in Canada This course will emphasize the history of Native people since the coming of Europeans. It will look at both the fur trade and the settlement periods as well as the development of Native political protest up to the present.

Prerequisites: two history courses or permission of the instructor

HIST 402-3 Women in Canada This course explores the constructions of Canadian womanhood and experiences of Canadian women from early contact to the present. Themes include First Nations women, women in colonial society, women and work, women and reform, women and the state, lesbian women, and feminism.

Prerequisites: two history courses or permission of the instructor

HIST 405-3 Special Topics in the Canadian North This course will focus on one or more particular themes in the history of the Canadian North such as Native cultures, Native-European relations, the resource economy, northern society, or the impact of distance and isolation.

Prerequisites: two history courses or permission of the instructor

HIST 406-3 British Columbia The history of the province from the coming of Europeans to the present, with emphasis on Native cultures, the fur trade, colonization, the development of institutions, society and the economy, as well as the growing sense of regional identity.

Prerequisites: two history courses or permission of the instructor

HIST 407-3 Local History/Methodology This course will examine the craft of history by focusing on the history of localities in northern British Columbia. Students will be expected to conduct their own research using primary sources.

Prerequisites: two history courses or permission of the instructor

HIST 408-3 Regional History/Methodology This course will focus on the formation and development of communities in northern British Columbia. Students will be expected to conduct their own research using primary sources.

Prerequisites: none

HIST 420-3 Aboriginal People in the United States The history of Native People from the coming of Europeans. The course will cover the fur trade, settlement and dispossession, and the resurgence of Native people in recent years.

Prerequisites: two history courses or permission of the instructor

HIST 421-3 Topics in Environmental History This course will explore aspects of environmental history in a variety of geographic settings in various historical periods; the precise content of the course will vary from year to year depending on the expertise of the instructor.

Prerequisites: two history courses or permission of the instructor

COURSE DESCRIPTIONS: HISTORY

HIST 440-(3-6) Internship in History An academic course delivered in relevant workplaces (museums, archives, etc). Students will be supervised in a manner that will enable them to integrate their academic skills with practical application. May be repeated once for a total of six credits.

Prerequisites: History interns must be History majors. Permission of the undergraduate advisor for History. 60 credit hours. HIST 200-3

HIST 449-3 Special Topics in History (North America)

This course will cover particular aspects of the history of North America selected by the instructor.

Prerequisites: two history courses or permission of the instructor

HIST 450-3 Topics in Economic History This course will explore aspects of economic history in a variety of geographic settings in various historical periods; the precise content of the course will vary from year to year depending on the expertise of the instructor.

Prerequisites: two history courses or permission of the instructor

HIST 451-3 Special Topics in the History of Northern Europe This course will take one or more of the themes covered in HIST 355-3, 356-3, or 357-3 and examine them in greater depth.

Prerequisites: two history courses or permission of the instructor

HIST 452-3 Topics in European Social and Cultural History An advanced course for students interested in a detailed investigation of a particular theme in the field of social or cultural history.

Prerequisites: HIST 240-3 or 250-3 or permission of the instructor

HIST 453-3 Topics in the History of Gender This course will examine the gendered experience of men and women in several countries.

Prerequisites: two history courses or permission of the instructor

HIST 454-3 Comparative Women's History This course will examine the diversity of women's experience by comparing a number of countries.

Prerequisites: two history courses or permission of the instructor

HIST 455-3 Topics in Medical History An examination of the development of medical practice and its impact on people in different parts of the world.

Prerequisites: two history courses or permission of the instructor

HIST 456-3 Comparative Cultural Encounters This course will examine cultural relations, either between European and indigenous cultures or between different Native cultures in different parts of the world.

Prerequisites: two history courses or permission of the instructor

HIST 458-3 Themes in Law, Order, and Society This course explores the historical interrelationships of law, authority, and social ordering in several geographic contexts.

Prerequisites: two history courses or permission of the instructor

HIST 459-3 Topics in the History of Resource

Development This class treats the intersection of history and resource development and exploitation. It considers a variety of geographic areas from the perspective of several groups of peoples.

Prerequisites: two history courses or permission of the instructor

HIST 498-3 Special Topics in History (International)

This course will cover particular aspects of international history selected by the instructor.

Prerequisites: two history courses or permission of the instructor

HIST 500-3 Honours Historiography: Contemporary Theories and Methods The course traces the development or historical thought from 1920s to the present.

Prerequisites: HIST 300-3 and admission to Honours Program

HIST 501-3 Honours Directed Readings A course of specialized readings developed in consultation with, and supervised by, a faculty member in the History Program.

Prerequisites: admission to Honours Program

HIST 502-3 Honours Thesis I A specialized research project developed in consultation with, and supervised by, a faculty member in the History Program. Credit will be based on the clarity, feasibility and originality of the proposed project.

Prerequisites: HIST 501-3 and maintenance of a minimum GPA of 3.33

HIST 503-3 Honours Thesis II A specialized research project developed in consultation with, and supervised by, a faculty member in the History Program. Credit will be based on the presentation of research results in a formal paper of 7,500 to 10,000 words.

Prerequisites: HIST 500-3, 501-3, 502-3 and maintenance of a minimum GPA of 3.33

■ International Exchange

INTX 488-(3-18) International Exchange Program

Undergraduate students register in this course when they have been accepted to participate in a formal international exchange program at one of UNBC's partner institutions.

Prerequisites: completion of 60 credit hours of course work or permission of the academic advisor and the Exchange Student Selection Committee. At least 24 of these credit hours must be completed at UNBC. A student may register in this course more than once for a maximum of 30 credit hours unless special permission is granted to complete additional credit hours.

■ International Studies

INTS 101-3 Canada and the World An examination of Canada's position within the global community, including key economic, political, social and environmental issues and relations with the United States, Pacific Basin, and Circumpolar North.

Prerequisites: none

INTS 121-3 Beginning Japanese I An introduction to conversational and written elements of the language using materials from everyday situations.

Prerequisites: none

INTS 122-3 Beginning Japanese II Continuation of INTS 121-3.

Prerequisites: INTS 121-3

INTS 131-3 Beginning Russian I An introduction to conversational and written elements of the language using materials from everyday situations.

Prerequisites: none

INTS 132-3 Beginning Russian II Continuation of INTS 131-3.

Prerequisites: INTS 131-3

INTS 141-3 Beginning Swedish I An introduction to conversational and written elements of the language using materials from everyday situations.

Prerequisites: none

INTS 142-3 Beginning Swedish II Continuation of INTS 141-3.

Prerequisites: INTS 141-3

INTS 151-3 Beginning International Language I (international language not regularly offered at UNBC) An

introduction to conversational and written elements of the language using materials from everyday situations.

Prerequisites: none

INTS 152-3 Beginning International Language II

Continuation of INTS 151-3.

Prerequisites: INTS 151-3

INTS 160-3 Mandarin for Chinese Speakers Designed to help speakers of other Chinese dialects (Cantonese, Hakka, Fujian and others) who have the ability to read and write Chinese language, to gain better listening comprehension and fluency in oral Mandarin Chinese and strengthen their language skills in Mandarin Chinese. It will focus on Mandarin pronunciation, syntax and concepts of modern Chinese through reading and discussion.

Prerequisites: approval of instructor

INTS 161-3 Beginning Chinese I A beginning course in modern written Chinese and spoken Mandarin. It is to lay the foundation for the study of Mandarin Chinese and to develop the four basic linguistic skills, namely listening, speaking, reading and writing, through the study of Hanyu Pinyin (a phonetic system using English characters), vocabulary, syntax and culture. It is designed for non-native speakers.

Prerequisites: approval of instructor

INTS 162-3 Beginning Chinese II A continuation of the comprehensive introduction to the basics of Mandarin in INTS 161-3. The multiple approach of this course focuses on perfecting phonetic skills, improving conversation competence (speaking and listening skills) as well as learning more Chinese characters for reading and writing.

Prerequisites: INTS 161-3 or equivalent

INTS 200-3 Contemporary Russia An interdisciplinary survey of the former Soviet Union and its peoples, including an examination of major historical, social, economic, political and cultural features of the country.

Prerequisites: none

INTS 201-3 Contemporary Scandinavia An interdisciplinary survey of Scandinavia and its people, including an examination of the major historical, social, economic, political and cultural features of the region.

Prerequisites: none

INTS 202-3 Contemporary United States An interdisciplinary survey of the country and its people, including an examination of the major historical, social, economic, political and cultural features of the nation.

Prerequisites: none

COURSE DESCRIPTIONS: INTERNATIONAL STUDIES

INTS 203-3 Contemporary Japan An interdisciplinary survey of the country and its people, including an examination of the major historical, social, economic, political and cultural features of the nation.

Prerequisites: none

INTS 204-3 Contemporary China An interdisciplinary survey of China and its peoples, including an examination of the major historical, social, economic, political and cultural features of the country.

Prerequisites: none

INTS 205-3 Introduction to International Studies A survey of ways to analyze international interactions between states, people and the environment.

Prerequisites: none

INTS 206-3 Contemporary International Issues An examination of issues and problems in contemporary international studies.

Prerequisites: INTS 205-3

INTS 221-3 Intermediate Japanese I The development of speaking, writing and reading abilities using modern texts.

Prerequisites: INTS 122-3 or permission of the instructor

INTS 222-3 Intermediate Japanese II Continuation of INTS 221-3.

Prerequisites: INTS 221-3

INTS 231-3 Intermediate Russian I The development of speaking, writing and reading abilities using modern texts.

Prerequisites: INTS 132-3 or permission of the instructor

INTS 232-3 Intermediate Russian II Continuation of INTS 231-3.

Prerequisites: INTS 231-3

INTS 241-3 Intermediate Swedish I The development of speaking, writing and reading abilities using modern texts.

Prerequisites: INTS 142-3 or permission of the instructor

INTS 242-3 Intermediate Swedish II Continuation of INTS 241-3.

Prerequisites: INTS 241-3

INTS 251-3 Intermediate International Language I The development of speaking, writing and reading abilities using modern texts.

Prerequisites: INTS 152-3 or permission of the instructor

INTS 252-3 Intermediate International Language II Continuation of INTS 251-3.

Prerequisites: INTS 251-3

INTS 258-3 Contemporary Australia and New Zealand An interdisciplinary survey of Australia, New Zealand and the South Pacific Nations including an examination of the major historical, social, economic, political and cultural features of the region.

Prerequisites: none

INTS 261-3 Intermediate Chinese I This intermediate course is a continuation of INTS 161-3 and INTS 162-3. It provides students with opportunity to strengthen the four basic linguistic skills of the language and to increase their competency in oral and written skills. Some simple Chinese proverbs and idiomatic expressions will be introduced.

Prerequisites: INTS 161-3 and INTS 162-3 or equivalent

INTS 262-3 Intermediate Chinese II This intermediate course is a continuation of INTS 261-3. Students will continue to build proficiency in all four basic skills of the language, and are expected to be, by this level, knowledgeable and competent enough to work independently in acquiring new vocabulary and Chinese characters. Short essay writing will be included. A couple of Tang's poems and Song's verses will be introduced.

Prerequisites: INTS 261-3 or equivalent

INTS 300-3 International Organization An investigation of the evolution, operation and significance of international organization and international organizations. Examinations of the United Nations, other intergovernmental institutions and various non-governmental organizations are included.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 301-3 International Law A study of the nature and sources of international law and its application in the contemporary international community.

Prerequisites: INTS 205-3, INTS 300-3 and 60 credit hours, or permission of the instructor

INTS 302-3 Canadian Foreign Policy A survey of the institutions, actors, processes and issues that determine Canadian foreign policy, including a review of the relationship to domestic policies.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 304-3 International Development An examination of approaches to and problems of economic, social and political development. Policy-making processes and the role of national and international development institutions are also explored.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 306-3 Human Rights An examination of human rights issues and problems within the global community. Human rights questions as disputes in relations between states and societies are explored, as are efforts to establish international codes of conduct and observance.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 307-3 Global Resources An examination of the interaction between global economic and environmental resources.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 308-3 Gender and International Studies An investigation of the role of gender in international affairs.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 310-3 Origins and Evolution of International Studies A review of the origins and theoretical development of contending approaches which inform International Studies.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 321-3 Japanese Conversation and Composition I

This course is designed for students who have an intermediate Japanese language background. It will focus on developing students' speaking and writing skills as well as reading and listening. Students will practice assigned topics in conversation and writing each week. Participation and skill levels will be evaluated each class session.

Prerequisites: INTS 222-3 or approval of the instructor

INTS 322-3 Japanese Conversation and Composition II

This course is the continuation of INTS 321-3 Japanese Conversation and Composition I.

Prerequisites: INTS 321-3 or approval of the instructor

INTS 340-3 The Circumpolar North in Global Perspective An examination of the North in global perspective and the importance of a comparative perspective. The nature and development of conflicts within the region between and within native and non-native communities, between and within groups on issues such as development, and between nations over matters such as sovereignty and defence of Northern regions are surveyed, as are attempts to reduce conflicts and create a more integrated circumpolar society.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 350-3 Pacific Relations An investigation of the evolution of relations between the nations of the Asia-

Pacific region, including the consideration of economic, political, social and cultural interactions.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 371-3 Globalization An examination of the concept of globalization as it relates to political, economic, social, cultural and environmental processes which challenge and redefine the international system.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 377-3 Redefining Security A review of the evolution of the notion of security from traditional definitions associated with the military and the state to more recent definition of security which include gender, economics, and the environment.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 378-3 Intelligence and Security A comparative analysis of the place of security and intelligence in international relations and within contemporary states. The role of the four major elements of intelligence (collection, counterintelligence, analysis and estimates, and covert action) will be examined as will the oversight and control issues raised by these activities.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 400-3 Seminar in International Studies Supervised research, analysis and writing on selected topics in international studies.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 402-3 Pacific Affairs A detailed study of contemporary issues in the relations between Asia-Pacific nations, including an assessment of regional and subregional institutions.

Prerequisites: INTS 205-3, INTS 350-3 and 60 credit hours, or permission of the instructor

INTS 403-3 Canadian-American Relations A review of the evolution of relations between Canada and the United States.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 404-3 Canada and the Americas An examination of issues and problems in Canada's relationship with the countries of North, Central and South America.

Prerequisites: INTS 205-3, INTS 403-3 and 60 credit hours, or permission of the instructor

COURSE DESCRIPTIONS: INTERNATIONAL STUDIES, LANGUAGES, MATHEMATICS

INTS 406-3 Russian-North American Relations An investigation of historical and contemporary relations between the Soviet Union and its successors with Canada and the United States.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 409-3 Theories of International Studies A review of the development of international studies as a discipline and the emergence of contending theoretical approaches.

Prerequisites: INTS 205-3, INTS 310-3 and 60 credit hours, or permission of the instructor

INTS 410-3 Environment and Development in the Circumpolar North Examination of conservation and development issues and experiences in the northern circumpolar countries.

Prerequisites: INTS 205-3, INTS 340-3 and 60 credit hours, or permission of the instructor

INTS 430-(3-15) Study Abroad

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 440-(3-6) Internship

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 444-3 Russian Foreign Policy An analysis of the sources of Russian foreign policy and the patterns of external relations, from the Tsarist period to the present.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor
Precluded: INTS 644-3

INTS 460-3 Issues in Canadian Foreign Relations A detailed examination of selected problems in Canada's foreign relations.

Prerequisites: INTS 205-3, INTS 302-3 and 60 credit hours, or permission of the instructor

INTS 470-3 International Environmental Policy An examination of the development and implementation of international environmental policy. Areas of study may include the role of knowledge and the international scientific community in the international environmental policy process, the globalization of environmental non-governmental organizations, as well as the activities of the United Nations Environment Program, World Meteorological Organization, and other international institutional actors.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 479-3 The European Union An examination of the institutions, policies and problems of the European Union.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 498-(3-6) Special Topics in International Studies Detailed examination and analysis of a contemporary issue in international studies, including the exploration of future policy options.

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 499-(3-6) Independent Study

Prerequisites: INTS 205-3 and 60 credit hours, or permission of the instructor

INTS 590-3 Honours Seminar This seminar will cover major theories and developments in international affairs, and the application of key theories, such as realism, idealism, constructivism, interdependence and globalization, etc. The precise content will vary from year to year depending on faculty and student interest. An effort will be made to cover topics of relevance to the students' honours theses.

Prerequisites: Admission to the Honours program, completion of INTS 409-3, and concurrent registration in INTS 591-6

INTS 591-6 Honours Thesis The honours thesis will comprise a major specialized research project normally analyzing the applicability of an important concept, theory, issue or development in international studies. Each honours thesis will require the approval of the honours advisor, and will have a supervisor and a second reader, and will be defended.

Prerequisites: Admission to the Honours program, completion of INTS 409-3, and concurrent registration in INTS 590-3

■ Languages

International languages taught at UNBC include Japanese, Mandarin and Russian. For course listings, see entries under International Studies.

■ Mathematics

Unless otherwise stated, a student may enrol in any Mathematics course with permission of the Program Chair.

Note that BC Introductory Mathematics 11, Applications of Mathematics 11 and Applications of Mathematics 12 are not considered prerequisites for any Mathematics courses as currently taught.

MATH 100-3 Calculus I An introduction to the calculus of functions of one variable, primarily for majors and students in the sciences. Functions of one variable, inverses, limits and limit theorems, continuity, the difference quotient and derivatives, rules for differentiation, differentiability, the mean value theorem, the differential as a linear functional, definitions and derivatives of trigonometric functions, informal definitions of logarithmic and exponential functions and their derivatives, L'Hôpital's rule, higher derivatives, maxima and minima, curve sketching, Newton's method, antiderivatives, definite integrals, the fundamental theorem of calculus, integrals of elementary functions, area between curves, applications of integration. All sections of this course will be taught using the Maple software.

Prerequisites: Math 12 or Principles of Math 12 or MATH 115-3

Precluded: MATH 105-3, MATH 151-3, MATH 152-3

MATH 101-3 Calculus II A continuation of MATH 100-3. Definition of the natural logarithm as an integral and of the exponential function as its inverse, integration by substitution and by parts, miscellaneous techniques of integration, improper integrals, volumes by slicing and by shell techniques, the trapezoidal rule and Simpson's rule, infinite sequences and series, Taylor series, curves given parametrically, polar co-ordinates, masses, volumes, moments, centres of mass, first order linear differential equations, definition of partial derivatives. All sections of this course will be taught using the Maple software.

Prerequisites: MATH 100-3 or MATH 105-3

MATH 105-3 Enriched Calculus A rigorous introduction to the calculus of functions of one variable. Core topics covered are similar to those of MATH 100-3, except that the focus is less on the mechanics of calculus and more on the development of the ideas in calculus and of calculus as a foundation of mathematical thought. Additional special topics will be added by the instructor. Maple labs will accompany this course.

Prerequisites: Math 12 or Principles of Math 12 or MATH 115-3

Precluded: Math 100-3, MATH 151-3, MATH 152-3

MATH 115-3 Precalculus Algebraic manipulation, solution of algebraic equations, functions, inverses, graphing, analytic geometry. Not normally open to students with credit in Grade 12 Math.

Prerequisites: Math 11 or Principles of Math 11 or permission of the Program Chair. Students with credit in Math 12 or Principles of Math 12 require permission of the Program Chair

MATH 150-3 Finite Mathematics for Business and Economics This course is offered primarily for students in the Faculty of Management and Administration. Review of functions, graphs, logarithms, exponents, and inverses, solution of linear systems of equations, matrix notation and properties, matrix inversion, Jacobians and Hessians,

eigenvalues and eigenvectors, linear programming, and an introduction to actuarial mathematics. Not open to mathematics or computer science majors.

Prerequisites: Math 12 or Principles of Math 12 or MATH 115-3

MATH 152-3 Calculus for Non-majors Limits, the derivative, techniques of differentiation, exponential functions and exponential growth, maxima and minima, curve sketching, first order linear differential equations, definite and indefinite integrals, partial derivatives, optimization of functions of several variables, Lagrange multipliers, with applications in the social and physical sciences. Applications may vary somewhat from section to section, depending on student's discipline. Not open to mathematics or computer science majors.

Prerequisites: Math 12 or Principles of Math 12 or MATH 115-3

Precluded: MATH 100-3, MATH 105-3, MATH 151-3

MATH 200-3 Calculus III The final course in the calculus sequence, with an emphasis on the calculus of vector-valued functions of several variables. Vectors in two- and three-dimensional space, dot and cross products, lines and planes in space, cylindrical and spherical co-ordinates, curves given parametrically, surfaces and curves in space, directional derivatives, the gradient, tangent vectors and tangent planes, the chain rule, the topology of Euclidean space, optimization problems for functions of several variables, vector fields, line integrals, surface integrals, the theorems of Green, Gauss, and Stokes, potential functions, conservative fields. All sections of this course will be taught using Maple Software.

Prerequisites: MATH 101-3

Co-requisites: MATH 220-3

MATH 201-3 Analysis I Principles of Fourier analysis and Fourier series with applications to classical second order partial differential equations, topology of the complex plane, the Cauchy-Riemann equations, analytic functions, power series, Laurent series, Cauchy's theorem, entire and meromorphic functions, Liouville's theorem, the fundamental theorem of algebra, the residue theorem, contour integration, and applications.

Prerequisites: MATH 200-3

MATH 220-3 Linear Algebra Solving linear systems of equations, matrix operations, linear spaces, bases, rank, null space, representing linear transformations with matrices, Gaussian elimination with partial and full pivoting, inverses, adjoints, determinants and their properties, reduced row echelon form, eigenvalues and eigenvectors with applications, least squares solution to overdetermined systems. Some use will be made of appropriate computer software, but previous computer experience is not a prerequisite.

Prerequisites: MATH 100-3 or MATH 105-3

COURSE DESCRIPTIONS: MATHEMATICS

MATH 221-3 Operations Research Linear programming and the simplex method, the modified simplex method, an introduction to convex analysis, duality theory, sensitivity analysis, applications of linear programming, non-linear programming including: fractional and quadratic programming, multivariable unconstrained optimization, the Karush-Kuhn-Tucker conditions, queuing theory. Supporting computer software may be used.

Prerequisites: MATH 220-3

MATH 222-3 Foundations of Modern Mathematics I The emphasis in this course is on formal systems and abstract reasoning. Methods of proof, examples of formal systems, informal set theory, functions and relations, mathematical notation, finite geometries, the fundamental theorem of Algebra, polynomial equations, number theory.

Prerequisites: BIOL 102-4, MATH 100-3 or MATH 105-3, NREM 100-2

Recommended: MATH 101-3

MATH 223-3 Foundations of Modern Mathematics II A continuation of MATH 222-3, primarily for mathematics majors. Construction of the real numbers, careful development of naive set theory, cardinal and ordinal numbers, the Schroeder-Bernstein theorem, metric and other topologies, symbolic logic, famous problems in mathematics, mathematics and human culture.

Prerequisites: MATH 222-3

MATH 242-3 Statistics for Social and Health Sciences

This course provides an introduction to the principles of statistical inference for students in the social and health sciences. Credit not normally given for both MATH 340-3 and 242-3.

Prerequisites: Math 11 or Principles of Math 11

Recommended: Math 12 or Principles of Math 12

MATH 300-3 Analysis II Construction of the real numbers by Dedekind cuts, properties of the real numbers, basic definitions and theorems of metric space topology, rigorous discussion of sequences and series, the Riemann-Stieltjes integral, uniform convergence and continuity, the Weierstrass and Stone-Weierstrass theorems.

Prerequisites: MATH 201-3

MATH 320-3 Survey of Algebra A first course in the standard algebraic structures, their properties and applications. Equivalence relations, elementary group theory, finite groups, cyclic groups, permutation groups, group homomorphisms, products, elementary ring theory, ring homomorphisms and products, construction of new algebraic structures from known structures.

Prerequisites: MATH 220-3

Recommended: MATH 222-3

MATH 321-3 Topology Open and closed sets, Hausdorff and other topologies, bases and sub-bases, continuous functions connectivity, product and quotient spaces, the Tychonoff and Urysohn lemmas, metrization, compact spaces.

Prerequisites: MATH 223-3, 320-3

MATH 330-3 Numerical Analysis I Computer arithmetic, solution of non-linear algebraic equations, LU and Cholesky factorizations, pivoting, computing eigenvalues by the power and QR algorithms, polynomial interpolation, divided differences, splines. Programming exercises will be given, and there may be some use of commercial software. May be counted as a computer science course by computer science majors.

Prerequisites: MATH 101-3, 220-3, CPSC 100-4 (or equivalent programming experience in C)

MATH 331-3 Numerical Analysis II A continuation of MATH 330-3. Richardson extrapolation, Gaussian quadrature, Romberg integration, adaptive quadrature, methods for solving ordinary differential equations, solving boundary value problems by the shooting method and by finite difference methods, stiff equations, methods for solving partial differential equations, finite difference methods, Galerkin and Ritz methods, the finite element method. Programming exercises may be given, and there will be some use of commercial software.

Prerequisites: MATH 330-3, 332-3

MATH 332-3 Differential Equations First order linear differential equations, separable and exact equations, existence and uniqueness theorems, second order linear differential equations, series solutions, applications, Euler's method, Runge-Kutta methods, systems of first order differential equations, uncoupling of first order linear systems using eigenvectors, boundary value problems. Only ordinary differential equations are considered in this course.

Prerequisites: MATH 101-3

Co-requisites: MATH 220-3

MATH 340-3 Introduction to Probability The course will consider the following major topics in Probability Theory: Numerical characteristics of random data, axioms of probability space, additive and multiplicative laws, Bayes's formula, total probability, binomial, geometric, hypergeometric, Poisson, uniform, normal, exponential, gamma, beta distributions, Chebyshev inequality, multivariate, marginal and conditional distributions, functions of random variables and their numerical characteristics, covariance, coefficient of correlation, deMoivre-Laplace theorem, central limit theorem.

Prerequisites: MATH 101-3

Recommended: MATH 200-3

MATH 341-3 Introduction to Statistics The course will consider the following major topics in Statistics: chi-square, Fisher, Student, large-and small-sample confidence intervals for mean(s), variance(s), point estimators and their properties: unbiasedness, efficiency, consistency, sufficiency, method of maximum likelihood, hypothesis testing, likelihood ratio test, chi-square test, goodness-of-fit test, contingency tables, analysis of variance, regression, sign test, Wilcoxon test.

Prerequisites: MATH 340-3

MATH 342-3 Biostatistics A calculus-based introduction to the theory and practice of statistical inference, with an emphasis on techniques and examples appropriate for students in the biological sciences.

Prerequisites: MATH 100-3, 151-3, or 152-3

MATH 370-3 Geometry I Geometry of curves and surfaces. The course will generally begin with a thorough investigation of the local theory of curves, and then proceed to the geometry of regular surfaces. Topics discussed will include: the first and second fundamental forms, orientability, and the Gauss map, and examples will include ruled and minimal surfaces. The course would conclude with the proof of the Gauss-Bonnet Theorem.

Prerequisites: MATH 201-3, 220-3 or permission of the instructor

MATH 389-3 Special Topics in Mathematics The topic of this course varies depending on student interest and faculty availability

Prerequisites: permission of instructor

MATH 400-3 Analysis III The implicit function theorem and inverse function theorem, Brouwer fixed point theorem (no proof), manifolds, integration of differential forms, the Lebesgue integral and related theorems, introduction to normed linear spaces and Hilbert space.

Prerequisites: MATH 300-3

MATH 401-3 Functional Analysis I Linear and bilinear functionals, quadratic forms, Hilbert space, summability, orthogonal complements, bounded linear functionals, operators, adjoints, Hermitian, normal, and unitary operators, projections, spectra, spectral measures, spectral theorems.

Prerequisites: MATH 400-3

MATH 420-3 Structure of Groups and Rings Advanced course in group theory and ring theory. Homomorphism theorems for groups, rings and R-modules, Sylow theorems, short exact sequences, chain conditions.

Prerequisites: MATH 320-3

MATH 421-3 Field Theory Topics discussed will include: fields, field extensions, splitting fields, automorphism group, Galois Theory.

Prerequisites: MATH 320-3

MATH 430-3 Applied Mathematics I An introduction to techniques of applied mathematics with an emphasis on partial differential equations and the modelling of continuous phenomena. Classification and solution of the classical second order partial differential equations, first order equations and the method of characteristics, Green's functions, eigenvalue problems, singular perturbation methods.

Prerequisites: MATH 201-3, 332-3

MATH 431-3 Applied Mathematics II A continuation of the material introduced in MATH 430-3. Systems of ordinary differential equations, perturbation theory, random processes and partial differential equations, asymptotic series, dimensional analysis and scaling, more on singular perturbation theory, field equations of continuum mechanics, inviscid fluid flow, potential theory.

Prerequisites: MATH 340-3, 430-3

MATH 440-3 Advanced Probability and Statistics The course will consider the following advanced topics in Probability and Statistics: Limit theorems: laws of large numbers and CLT, Kolmogorov inequality, weak and strong convergence, large deviations, Markov chains with applications, ergodic theorems, martingales, and martingale methods, extreme value theory and order statistics, estimation of parameters.

Prerequisites: MATH 340-3 and/or 341-3

MATH 460-3 Mathematics Seminar Topic will vary from year to year. Offered in a seminar format with limited enrolment. Students will complete a substantial project under the supervision of the instructor.

Prerequisites: fourth year standing and permission of the instructor

MATH 470-3 Geometry II Calculus on manifolds. Elementary properties of manifolds, differentiable structures, immersions and embeddings, tangent bundles, tensors, vector fields and connections, integration, Stokes theorem, Riemannian metrics, curvature tensors.

Prerequisites: MATH 201-3, 220-3 or permission of the instructor

Recommended: MATH 370-3

MATH 499-3 Special Topics in Mathematics The topic for this course will vary, depending on student interest and faculty availability.

Prerequisites: permission of the instructor

COURSE DESCRIPTIONS: NATURAL RESOURCES MANAGEMENT, NATURAL RESOURCES AND ENVIRONMENTAL STUDIES, NORTHERN STUDIES

■ **Natural Resources Management**

NREM 100-2 Natural Resources Management I

Introduction to basic field skills in the natural resources including orienteering, surveying, first aid, outdoor survival, and search and rescue. Extensive fieldwork required.

Prerequisites: none

NREM 101-2 Natural Resources Management II

Introduction to natural resource policies, issues and professional fields of natural resource management.

Prerequisites: none

NREM 203-3 Resource Inventories and Measurements

Introduction to measurement techniques and concepts used in natural resources fields including forest inventory. Extensive field work required.

Prerequisites: three credit hours of computer science, NREM 100-2

NREM 204-3 Introduction to Wildlife and Fisheries

Introduction to principles of habitat and population biology and management, and human dimensions of wildlife management. Lectures will introduce the life requisites of individual species and compare aquatic and terrestrial systems, and provide an overview of the characteristics needed to estimate parameters of fish and wildlife populations. Labs will emphasize quantification of fish and wildlife habitats.

Prerequisites: BIOL 102-4, NREM 100-2

NREM 210-4 Integrated Resource Management

An introductory course in the principles of management of forest resources including fisheries, recreation, range, and wildlife.

Prerequisites: none

NREM 303-3 First Nations' Approaches to Resource Management

Cultural and operational components of resource management by First Nations peoples. Relationships to conventional forest management practices.

Prerequisites: 60 credit hours

NREM 306-3 Society, Policy and Administration Social views of natural resources and the management processes by which these views and policies are developed and expressed. Social conflict and its resolution over natural resource policies.

Prerequisites: none

NREM 400-4 Natural Resources Planning Natural resource management planning processes to include crown land and different lease arrangements as well as private land.

Inventory, public involvement, implementation, monitoring, and assessing resource values.

Prerequisites: 90 credit hours and NREM 210-4 or permission of the instructor

NREM 410-3 Watershed Management Principles and practices of forest management for protection, maintenance and improvement of water resource values. Effects of land management on quality, quantity and timing of water flow. Field trips required.

Prerequisites: GEOG 210-3

NREM 411-3 Environmental and Professional Ethics

Analysis of environmental and natural resource issues from an ethical perspective; viewpoints and value systems that determine management decisions.

Prerequisites: 90 credits required

Precluded: ENVS 414-3, ENVS 602-3, NREM 603-3

■ **Natural Resources and Environmental Studies**

NRES 100-3 Communications in Natural Resources and Environmental Studies

This course will provide a basic understanding of human behavioural responses as well as develop learning skills in oral and written communications. Emphasis will be on determining the nature of an audience, accessing appropriate material, report writing, oral presentation and literature relevant to natural resources and environmental disciplines.

Prerequisites: none

NRES 420-3 Undergraduate Report Development of a technical and professional report relevant to the student's major and area of interest.

Prerequisites: 90 credit hours and permission of an Academic Supervisor

NRES 430-6 Undergraduate Thesis Students must have completed at least 90 credit hours of study and be an NRES major. The thesis may be taken in one or two semesters of the senior year.

Prerequisites: 90 credit hours and permission of an Academic Supervisor

■ **Northern Studies**

NORS 101-3 Northern Environments Introduction to the physical, biological and human environments of the Arctic and Subarctic regions, and their interactions and relations to the global system. Topics will include retreat of glaciers, permafrost, ice in ground, impact of these on arctic flora and fauna, arctic atmosphere and climatic change.

Prerequisites: none

NORS 498-3 Special Topics in Northern Studies A special topic in northern studies selected by an instructor.

Prerequisites: NORS 101-3 and upper division standing

NORS 499-(3-6) Independent Research/Directed Reading in Northern Studies Concentration on a particular topic agreed upon by a member of the faculty and a student.

Prerequisites: NORS 101-3 and upper division standing

■ Nursing

NURS 101-3 The Art and Science of Nursing Introduces the beginning student to the dimensions of nursing practice and to individuals accessing health care. Through group and individual learning activities the student is introduced to concepts, practices, issues and trends in nursing and health care. Observational experience with a health care practitioner is incorporated.

Prerequisites: none; admission for non-nursing students by permission of the instructor

NURS 102-3 Communication Theory and Practice

Introduces the student to communication theory and concepts. The student has the opportunity to increase awareness of self and to explore perceptions, culture, language and non-verbal messages. Opportunities exist for the development of communication skills.

Prerequisites: none; admission for non-nursing students by permission of the instructor

NURS 103-3 Introduction to Lifespan Development

Provides an overview of normal lifespan development from the infant to the elderly. Opportunities exist to interact with well individuals of various ages.

Prerequisites: none; admission for non-nursing students by permission of the instructor

NURS 201-4 Introduction to Health Assessment Provides the basis to gather a health history and to assess the functioning of individuals through the proper use of physical examination techniques. Psychosocial and cultural assessment is included. The emphasis is on recognition and identification of normal findings.

Prerequisites: all 100 level nursing courses; HHSC 111-3, 112-3 or BIO 111 and BIO 112 at CNC. Admission for non-nursing students by permission of the instructor.

NURS 202-3 Pathophysiological Concepts Uses a conceptual approach to examine pathological mechanisms of altered states in human physiology. Topics include the etiology, cellular metabolism, tissue alterations, functional changes, and age-related differences involved in each process.

Prerequisites: HHSC 111-3, 112-3 and 110-3 or BIO 111 and 112 and BIO 105 at CNC. Admission for non-nursing students by permission of the instructor.

NURS 203-3 Health Promotion in Families Introduces theory related to families across the lifespan within the context of primary health care in the north. Emphasis is on family assessment skills and working in partnership with families in the development of health promotion and illness and injury prevention strategies. Holistic care of families during transitions such as normal childbearing, child rearing, and caring for an elderly parent is included.

Pre- or co-requisites: NURS 101-3, 103-3, HHSC 111-3, 112-3 at UNBC or BIO 111 and 112 at CNC. Admission for non-nursing students by permission of the instructor.

NURS 204-3 Healing Modalities Provides an overview of healing modalities currently used by nurses and other experts in practice in British Columbia. Principles of pharmacology and pharmacodynamics are addressed. Opportunity is provided for students to explore various complementary healing techniques.

Pre- or co-requisites: NURS 202-3. Admission for non-nursing students by permission of the instructor.

NURS 205-3 Introduction to First Nations Health

Provides an overview of First Nations health, factors influencing health status, and issues arising from Northern and remote living. Historical events and their impact on health are introduced. Current barriers to health, along with culturally sensitive nursing implications, are explored.

Pre- or co-requisites: ANTH 101 or equivalent. Admission for non-nursing students by permission of the instructor.

NURS 206-3 Basic Nutrition Examines the nutritional needs of specific client groups throughout the lifespan and in various states of wellness and illness. The course reviews the physiology of carbohydrate, fat, protein, and energy metabolism. Topics include enteral and parenteral nutrition, trends and issues in nutritional practice, and the psychosocial and cultural aspects of food and eating behaviours.

Pre- or co-requisites: none; admission of non-nursing students by permission of the instructor

NURS 210-3 Nursing Practice with the Adult Examines principles and practices of nursing adults with health problems. Focus is on the application of knowledge in planning nursing care of clients requiring medical and surgical intervention. Holistic health care of individuals is highlighted.

Pre- or co-requisites: NURS 201-4, 202-3, 203-3, 204-3, 206-3. Restricted to students in the NCBNP.

NURS 211-5 Clinical Practicum: Adult Enables the student to apply previously learned theory and skills in practice and acquire basic psycho-motor skills needed to provide nursing care. This course provides the opportunity to care for the adult with health problems requiring hospitalization. The course includes laboratory instruction in psychomotor skills necessary to provide nursing care.

Pre- or co-requisites: NURS 210-3. Restricted to students in the NCBNP.

COURSE DESCRIPTIONS: NURSING

NURS 220-5 Extended Clinical Practicum I Provides the opportunity for consolidated clinical nursing practice with adults who have health problems. This course builds on previous clinical practice with the adult and will occur in various settings in northern BC.

Prerequisites: NURS 205-3, 211-5. Restricted to students in the NCBNP.

NURS 301-3 Advanced Pathophysiology Discusses the pathogenesis and pathophysiological mechanisms of select diseases and conditions, with an emphasis upon recent discoveries in genetics, immunology, and infection and includes conditions relevant to northern BC. Linkages between pathophysiological events and therapeutic modalities are made. This course presumes an understanding of anatomy, physiology, and basic pathophysiology.

Prerequisites: none; admission for non-nursing students by permission of the instructor

NURS 302-3 Health Assessment Focuses upon the systematic collection and interpretation of a client's health history and health status. Emphasis is placed on the acquisition of clinical techniques with subsequent application in a variety of nursing settings.

Prerequisites: restricted to registered nurses

NURS 303-3 Nutrition Reviews nutrient requirements across the life span and physiological connections of diet to health and disease. Therapeutic aspects of hyperalimentation and special diets in disease states are covered.

Prerequisites: none; admission for non-nursing students by permission of instructor

NURS 304-3 Introduction to Nursing Knowledge

Provides an overview of the types of knowledge or theory in the profession, and how such knowledge is developed. Encourages a critical analysis of trends in knowledge development and highlights the crucial relationship of knowledge to practice.

Prerequisites: upper division standing in BSN program

NURS 305-1.5 Nursing Seminar I Explores two aspects of the nursing role: the nurse as a committed citizen (work with a volunteer agency is expected), and the ability to articulate a personal view of nursing.

Prerequisites: restricted to Nursing majors

NURS 306-3 Introduction to Epidemiology Applies epidemiological principles in the examination of patterns of disease and disability among populations, particularly those in northern latitudes. Introduction to the interpretation of vital statistics, the critique of cross-sectional, case-control and cohort design, and the principles of screening.

Prerequisites: upper division standing in the BSN program; admission for non-nursing students by permission of the instructor

NURS 307-3 Health Education Introduces the role and process of health education within a health promotion framework.

Prerequisites: none; admission of non-nursing students by permission of the instructor

NURS 308-3 Ethics and Law in Nursing Examines ethical reasoning and the use of ethical theory in nursing practice decisions. Health care law as it relates to nursing practice is explored. Special focus is on the meaning and use of nursing practice acts, professional standards of practice and nursing codes of ethics.

Prerequisites: upper division standing in BSN program

NURS 310-3 Nursing Practice with the Childbearing

Family Nursing Practice with the Childbearing Family, the Child, and the Adolescent examines knowledge, skills, and attitudes required to provide holistic nursing care for pregnant women, infants, growing children, adolescents, and their families. Relevant theory needed to care for clients during the intrapartum as well as theory related to the care of clients with common complications during childbearing is addressed. The most frequent health and developmental problems encountered in children and adolescents in the north, including acute and chronic illnesses, are explored.

Pre- or co-requisites: upper division standing in NCBNP

NURS 311-5 Clinical Practicum: Childbearing Family

Clinical Practicum: Childbearing Family, Child and Adolescent integrates content from NURS 310-3 in the clinical setting. Opportunities are provided to manage nursing care for individuals and families in labour and delivery, including low risk childbearing and perinatal situations, and for a child or adolescent with acute or chronic health problems.

Pre- or co-requisites: NURS 310-3

NURS 312-3 Mental Health Nursing Practice Introduces the theory and concepts of mental health nursing and examines the role of the mental health nurse in northern nursing practice settings. Attention is given to historical, current and projected trends with a focus on the unique concerns of the north.

Prerequisites: upper division standing in NCBNP

NURS 313-3 Nursing Practice with the Elderly Adult

Examines the knowledge, skills and attitudes required to provide holistic care to the older adult. The course focuses on the older adult's strengths and wisdom in adjusting to the aging process as well as acknowledging the effect of acute and chronic physical and psychological conditions.

Pre- or co-requisites: upper division standing in the NCBNP

NURS 314-5 Clinical Practicum: Mental Health and

Elderly Adult Provides opportunity for students to integrate concepts and theory related to mental health and the aging process as they care for individual and family clients with a variety of acute and long term care needs. Working with

families and groups that support individuals dealing with specific aging or mental health conditions is highlighted.

Pre- or co-requisites: NURS 312-3 and 313-3

NURS 320-5 Extended Clinical Practicum II Provides opportunity for consolidated clinical nursing practice with clients who have multiple health care needs. Previous clinical practice experience is considered when determining placement. The practicum occurs in various health care settings in northern BC.

Pre- or co-requisites: all 300 level required nursing courses in NCBNP

NURS 401-4 Introduction to Community Nursing

Provides an introduction to the concept of community and an overview of nursing in the community and of working with individuals, families, and aggregates in health and in illness. The trend to more community care in BC is explored. Students will have practica in the course.

Prerequisites: permission of the instructor

NURS 402-3 Health Promotion Examines health promotion theories, principles, and underlying philosophies within a primary health care framework. Students will identify and critique health promotion issues and explore strategies which promote well-being among individuals, groups, and communities.

Prerequisites: upper division standing

Precluded: HHSC 606-3

NURS 403-3 Introduction to Nursing Research Covers the empirical approach to the development of nursing knowledge and reviews aspects of quantitative and qualitative methods.

Prerequisites: NURS 304-2, MATH 242-3 at UNBC or equivalent

NURS 404-3 Program Development and Evaluation

Presents the process of program development and evaluation from the identification of a need for programing in various settings to planning, implementing, and evaluating the program.

Prerequisites: MATH 242-3, NURS 306-3; admission for non-nursing students by permission of the instructor

NURS 405-1.5 Nursing Seminar II Continuation of NURS 305-1.5.

Prerequisites: for Nursing majors registered in final semester of Nursing program

NURS 408-3 Nursing Leadership Discusses nursing as a profession within the health care delivery system. Theory regarding organizational structure, leadership, change, power, accountability and decision-making processes is included and is related to a specific clinical setting.

Pre- or co-requisites: normally, this course will be taken in the final semester of study

NURS 409-3 Pharmacotherapeutics for Nurses Examines the clinical application of drug therapy, with an emphasis on drugs commonly used in primary care settings. Implications of selected pharmacotherapeutics for patients and professional nurses are analyzed. Emphasis is on clinical decision making for nurses working in rural or northern settings.

Prerequisites: upper division standing. For RNs only.

NURS 410-3 Transcultural Nursing Examines concepts and theories of transcultural nursing and their application to the care of culturally diverse clients and communities. Strategies for developing culturally sensitive nursing approaches are explored. Emphasis is on respecting and responding to clients in ways that acknowledge and incorporate cultural differences and similarities.

Prerequisites: upper division standing or by permission of the instructor

NURS 411-3 Medical Diagnostics for Nurses Provides information, interpretation and implications of commonly ordered diagnostic tests. Aspects of specimen collection and test performance are covered. Areas of study include serum chemistry, hematology, microbiology, radiological imaging, and electrography. Emphasis is upon problem solving and decision making for nurses in acute care settings and in remote and rural areas.

Prerequisites: upper division standing or by permission of the instructor

NURS 412-3 Women and Health Examines health issues of northern women within a holistic perspective. Students will explore general and specific health concerns of women using research literature, including epidemiology.

Prerequisites: upper division standing or by permission of the instructor

NURS 413-3 Oncology Nursing Incorporates an understanding of carcinogenesis into the study of current management and treatment modalities: surgery, radiation therapy, chemotherapy, biotherapy and bone marrow transplantation. Focus is upon nursing management of pain, administration of chemotherapeutic agents, palliative care, and assessment and prevention of complications.

Prerequisites: upper division standing or by permission of the instructor

NURS 414-3 Nursing Continuing Education and Staff Development

Examines principles and practices of continuing education and staff development in the context of implementing organizational and practice changes within health care organizations and agencies. Particular attention will be paid to the special educational requirements of nurses in rural, remote and northern settings.

Prerequisites: upper division standing and by permission of the instructor

NURS 415-3 Introduction to Community Health and Nursing Provides an introduction to the concept of community and nursing in the community and builds upon

COURSE DESCRIPTIONS: NURSING

previous experiences in community health nursing practice. Nursing theory and practice of working with individuals, families, and population groups in health and in illness are addressed. The trend to more community care in British Columbia is explored.

Prerequisites: all 300 level required nursing courses in NCBNP

NURS 416-4 Clinical Practicum: Community Nursing

Promotes the integration and application of community health nursing and primary health care theory in nursing practice in northern communities.

Pre- or co-requisites: NURS 415-3

NURS 417-4 Management of Emergent Situations

Provides theoretical knowledge and practice skills required to manage patients with emergency health problems in northern, remote, or rural settings. Emphasis is on initial stabilization, management and transport of patients requiring emergency care.

Prerequisites: for RNs only. NURS 301-3, 302-3, and 409-3. Preference will be given to students enrolled in the Rural and Northern Nursing Certificate.

Precluded: NURS 617-4

NURS 420-3 Community Health Nursing Focuses on theory, roles and practices required for community health nursing in a changing system in northern and isolated settings. Emphasis is placed on a population-focused approach to nursing care which includes the promotion of health and prevention of disease and disability.

Prerequisites: normally, this course will be taken in the final semester of study in the BSN program

NURS 421-6 Community Health Nursing Practicum

Permits the integration and application of community health nursing content obtained in NURS 420-3 in community settings. Students have the opportunity to work with or alongside expert practitioners in the clinical setting.

Prerequisites: registration in or successful completion of NURS 420-3

NURS 422-3 First Nations Health and Nursing Examines historical and current social, political, and economic factors influencing the health of First Nations people in Canada. Current health issues and related nursing implications are emphasized. Topics include: the impact of colonization on health, effects of rapid cultural changes, nursing management of specific health issues, culturally sensitive approaches to nursing care, the health transfer process, and special topics related to health.

Prerequisites: normally this course will be taken in the final semester of study in the BSN program

NURS 423-6 First Nations Health and Nursing

Practicum Provides clinical experiences for Post-RN students interested in working with Aboriginal clients, families, and communities. Clinical placements will occur in clinical agencies within First Nations communities or in

agencies that primarily serve Aboriginal clients. The course permits opportunities to practice with or alongside expert practitioners in the clinical setting.

Prerequisites: registration in or successful completion of NURS 422-3

NURS 424-3 Rural Nursing Provides content relevant to the practice of nursing in small, rural hospitals, clinics, and health centres in northern settings. The course focuses upon the nursing management of health problems frequently encountered in ambulatory and emergency settings, including mental health, and obstetrical considerations. Referral mechanisms and standards of practice are emphasized.

Prerequisites: normally this course will be taken in the final semester of study in the BSN program

NURS 425-6 Rural Nursing Practicum Permits the integration and application of rural nursing content obtained in NURS 424-3 within a rural clinical setting. Students have the opportunity to work with or alongside expert practitioners in the clinical setting.

Prerequisites: registration in or successful completion of NURS 424-3

NURS 426-3 Acute Care Nursing Explores the concepts and practices of acute care nursing with various client populations. Problem solving, complex client situations and expanding the professional role of the nurse are central themes of the course.

Prerequisites: normally this course will be taken in the final semester of study in the BSN program

NURS 427-6 Acute Care Nursing Practicum Enables the student to acquire skills in acute care professional practice in the focus area of choice and provides preparation for a career in the selected area. Providing direct patient care, applying critical thinking and competent problem solving in clinical settings, and contributing to decision making and education are expected in this practicum.

Prerequisites: registration in or successful completion of NURS 426-3

NURS 428-3 Nursing Management Examines nursing management and leadership theory, issues and practice in hospitals, health care agencies and communities. Special focus is on first-line nursing management within rural and northern communities in a changing health care system. Discussion and explorations are grounded in current health care and nursing management practice and research knowledge.

Prerequisites: normally this course will be taken in the final semester of study in the BSN program

NURS 429-6 Nursing Management Practicum Permits the extension of skills and knowledge in the practice of nursing leadership and management. Normally, the practicums may be in hospitals or in community health care organizations / agencies.

Prerequisites: registration in or successful completion of NURS 428-3

NURS 430-3 Community Continuing Care Nursing

Explores the role and responsibilities of nursing amongst a broad range of clients in home settings or long term care facilities. Concepts and applications of home health, such as gerontology, palliative care, mental health, rehabilitation, disability, family dynamics, and ethics are covered. Specific acute and chronic conditions, therapies in the home and community referral and liaison with institutions are addressed. Multidisciplinary team approach is emphasized.

Prerequisites: normally this course is taken in the final semester of study

NURS 431-6 Community Continuing Care Nursing Practicum

Enables the student to apply concepts and acquire skills of community continuing care professional practice. It integrates content obtained in NURS 430-3. The student will provide direct care in the home setting, apply critical thinking and competent problem-solving, and contribute to decision-making and referral. Students will have the opportunity to work alongside expert practitioners in community continuing care.

Prerequisites: registration in or successful completion of NURS 430-3

NURS 432-3 Mental Health Nursing Examines mental health and mental illness in depth with particular attention to identified high-risk groups in the northern nursing practice setting. Cultural, developmental and treatment setting variables are examined using a mental health nursing framework.

Prerequisites: normally this course will be taken in the final semester of study

NURS 434-3 Maternal and Child Nursing Examines the theory and practice of maternal and child nursing in depth, with particular attention to northern nursing practice. Nursing management of clients at risk or with complex health and psychosocial problems is included. Ethical and cultural issues relevant to maternal and child nursing are addressed.

Prerequisites: normally this course will be taken in the final semester of study

NURS 440-8 Practicum: Community Health Nursing

Facilitates the integration and application of concepts and models related to community health nursing. The opportunity for students to acquire skills needed to contribute to services and programs in the community is provided. Emphasis is on the nurse as a partner with the community.

Pre- or co-requisites: NURS 420-3 or equivalent. All courses in the NCBNP must be completed prior to or concurrently with NURS 440-8

NURS 441-8 Practicum: First Nations Health and Nursing

Provides clinical experiences for nursing students interested in working with First Nations clients, families, and communities. Clinical experiences are in agencies within

First Nations communities, or in agencies that primarily serve First Nations clients.

Pre- or co-requisites: NURS 422-3. All courses in the NCBNP must be taken prior to or concurrently with NURS 441-8

NURS 442-8 Practicum: Rural Nursing Facilitates the integration and application of knowledge and skills in rural nursing. Clinical experiences are located in rural hospitals, treatment and diagnostic centres, or community mental health agencies serving rural communities.

Pre- or co-requisites: NURS 424-3. All courses in the NCBNP must be taken prior to or concurrently with NURS 442-8

NURS 443-8 Practicum: Acute Care Nursing Enables the student to consolidate and extend knowledge and ability in acute care nursing practice. Clinical practice occurs with client populations requiring acute treatment and interventions.

Pre- or co-requisites: NURS 426-3 or equivalent; all courses in the NCBNP must be taken prior to or concurrently with NURS 443-8

NURS 450-6 Rural and Northern Nursing Provides understanding of concepts pertinent to nursing practice in rural and northern environments. Focuses on decision-making in an extended practicum in selected rural and northern settings. Multiple roles assumed by the nurse in these health care settings are emphasized. Nursing care that meshes with communities' cultural values and preferences is addressed.

Prerequisites: restricted to Registered Nurses. NURS 301-3, 302-3, 401-4, 402-3, and 409-3

Co-requisites: NURS 460-4

NURS 460-4 Advanced Health Assessment Focuses on diagnostic reasoning and clinical decision-making applied to health history and physical assessment of clients across the life span. Emphasis is on clinical applications in rural and northern settings.

Prerequisites: NURS 301-3, 302-3, 401-4, 402-3, and 409-3
Precluded: NURS 601-4

NURS 498-3 Special Topics in Nursing A course on a special topic in nursing. The topic will vary, depending on student interest and faculty availability. No more than six credit hours in Special Topics courses may be applied towards a BSN degree.

Prerequisites: upper division standing and permission of the instructor

NURS 499-3 Independent Study in Nursing A course on a selected topic based on readings and learning experiences directed by an instructor. The course format and requirements will be based on a formal contract with the instructor. No more than six credit hours in Independent Study courses may be applied towards a BSN degree.

Prerequisites: upper division standing and permission of the instructor

■ Philosophy

PHIL 200-3 Critical Thinking This course introduces students to informal logic and critical thinking. Students will learn to identify standard errors in reasoning and apply these skills to contemporary readings and other forms of media representation.

Prerequisites: none

PHIL201-3 Philosophy of Science A service course intended to introduce students to the conceptual/logical foundations of sciences. Topics include the nature of logic, scientific explanation, law, theories, use of probability and statistics, role of ethics and politics in science.

Prerequisites: none

Precluded: POLS 205-3

■ Physics

PHYS 100-4 Introduction to Physics I First part of an algebra based introductory physics course for majors in life and environmental sciences: physics and measurement, the laws of motion, applications of Newton's second law, work and energy, linear momentum and collisions, static equilibrium, elasticity, law of universal gravitation, laws of thermodynamics, fluid mechanics, sound waves.

Prerequisites: Physics 12 or PHYS 115-4

PHYS 101-4 Introduction to Physics II Second part of an algebra based introductory physics course for majors in life sciences. Covers: electric charge, electric field, electric potential, DC circuits, magnetic field, sources of magnetic fields, magnetic induction, electromagnetic waves, geometrical optics, elements of modern physics.

Prerequisites: PHYS 100-4

PHYS 110-4 Introductory Physics I: Mechanics First part of the calculus based introductory physics course for majors in physical and mathematical sciences. Covers: Vectors, measurement, motion in one and two dimensions, the laws of motion, application of Newton's laws, work and energy, potential energy, conservation of energy, linear momentum and collisions, rotation of rigid bodies, rolling motion, angular momentum, static equilibrium, elasticity, law of universal gravitation, elements of thermodynamics.

Prerequisites: Physics 12 or Principles of Math 12 or PHYS 115-4

Co-requisites: MATH 100-3

PHYS 111-4 Introductory Physics II: Waves and Electricity Second part of the calculus based introductory physics course for majors in physical and mathematical sciences, including oscillatory motion, wave motion, sound waves, superposition and standing waves, electric field, Gauss's law, electric potential, capacitance and dielectrics,

current and resistance, DC circuits, magnetic fields, sources of magnetic fields.

Prerequisites: PHYS 110-4 or 100-4 with a grade of B or better

Co-requisites: MATH 101-3

PHYS 115-4 General Introduction to Physics Algebra based introductory physics course for students without grade 12 Physics. Covers: physics and measurement, the laws of motion, work and energy, linear momentum and collisions, static equilibrium, elasticity, laws of thermodynamics, fluid mechanics, sound waves, electric field, electric potential, DC circuits, magnetic field, electromagnetic waves, laws of geometrical optics, elements of modern physics.

Prerequisites: none

PHYS 120-3 Introduction to Astronomy I: The Solar System A one-semester introductory course in Astronomy mainly for science students, but of general enough nature to accommodate non-science majors with proper background in math. This course is a complementary course to PHYS 121-3. After a brief introduction to the fundamentals of astronomy, including the sky at night, this course focuses on our solar system. Topics will include the following: an overview of our solar system; the Sun; Earth and Moon; the inner planets: Mercury, Venus, Mars; the gas giants: Jupiter, Saturn, Uranus, Neptune; moons and ring structure of the gas giants; Pluto and Charon; asteroids, comets, meteors, and meteorites; the origin and evolution of our solar system; origin and evolution of the sun. This course is a self-contained course.

Prerequisites: Math 11

PHYS 121-3 Introduction to Astronomy II: The Universe A one-semester introductory course in Astronomy mainly for science students, but of general enough nature to accommodate non-science majors with proper background in math. This course is a complementary course to PHYS 120-3. After a brief introduction to the fundamentals of astronomy, including the sky at night, and summary of the main features of our solar system, this course focuses on stars, galaxies, and the universe. Topics will include the following: the origins of stars and planetary systems; stars: the sun; properties and structures of stars; stellar interiors; the evolution of stars; stellar remnants; white dwarfs; neutron stars; blackholes, wormholes and warped spacetime; our galaxy: the Milky Way; the universe of galaxies; distance scales and indicators; active galaxies and quasars; cosmology: past, present, and future of the universe, "Is 'Anyone' Out There?" This course is a self-contained course.

Prerequisites: Math 11

PHYS 200-3 Thermal Physics Thermodynamics and introductory statistical mechanics, including temperature, reversible processes and work, first law of thermodynamics, second law of thermodynamics, entropy, thermodynamic

potentials, change of phase, chemical potentials, third law of thermodynamics, kinetic theory of gases.

Prerequisites: PHYS 111-4

Co-requisites: MATH 200-3

PHYS 202-4 Electromagnetism and Optics Magnetic field, Ampere's law, Faraday's law, inductance, magnetism and matter, electromagnetic oscillations, alternating currents, Maxwell's equations, electromagnetic waves, geometrical optics, interference, diffraction.

Prerequisites: PHYS 111-4

Co-requisites: MATH 200-3

PHYS 205-3 Modern Physics I First part of a two-semester course in modern physics: introduction to the theories of relativity and quantum mechanics. Topics include: Lorentz transformations, relativistic kinematics, relativistic dynamics, roots of the quantum theory, quantum theory of light, particle and wave nature of matter, Schrodinger equation in one and three dimensions, tunneling phenomena, atomic structure.

Prerequisites: PHYS 111-4

Precluded: PHYS 203-3

PHYS 206-4 Modern Physics II Second part of a two-semester course in modern physics: applications of quantum physics and relativity. Topics include: statistical physics, molecular structure, the solid state of matter, structure of crystals, semiconductors and superconductors, lasers, nuclear structure, radioactivity, nuclear reactions, applications of nuclear physics, elementary particles, elements of cosmology.

Prerequisites: PHYS 205-3

Precluded: PHYS 204-3

PHYS 215-3 Energy, Physics and the Environment A one-semester course dealing with the question of energy in our society. Topics include fundamentals of energy (forms, conservation, sources and use), energy from fossil fuels, heat and the laws of thermodynamics, heat engines and electric power, pollution of the atmosphere, nuclear energy, environmental safety aspects of nuclear energy, solar energy, energy consumption in the world, alternative sources of energy.

Prerequisites: Math 11

PHYS 300-3 Classical Mechanics Analytical classical mechanics, including Newtonian mechanics, motion in non-inertial frames, Lagrangian dynamics, central-force motion, motion of rigid bodies, small oscillations, coupled oscillations, Hamiltonian dynamics.

Prerequisites: PHYS 111-4, MATH 220-3

PHYS 301-3 Optics Geometrical and physical optics: mathematics of wave motion, electromagnetic theory, photons and light, laws of geometrical optics, optical

instruments, superposition of waves, polarization, interference, diffraction, Fourier optics, quantum optics, lasers, holography.

Prerequisites: PHYS 202-4

PHYS 302-3 Quantum Mechanics I Breakdown of classical mechanics, wave packets, wave-particle duality, wave function and Schrodinger equation, eigenvalues and eigenfunctions, harmonic oscillator, potential wells, potential barriers, central force problems, hydrogen atom, spin and angular momentum, time dependence of quantum states.

Prerequisites: PHYS 205-3, MATH 201-3

PHYS 303-3 Advanced Physics Laboratory Advanced laboratory experiments in mechanics, thermodynamics, electromagnetism, atomic, and nuclear physics.

Prerequisites: PHYS 202-4, 205-3

PHYS 304-3 Biophysics Topics include the physics of biological systems, physical principles and techniques used to study the structure and dynamics of biological membranes.

Prerequisites: PHYS 101-4 or 111-4, BIOL 101-4

PHYS 305-4 Electronics Basics of electric and electronic circuits, including DC circuits, Kirchoff's laws, Thevenin's and Norton's theorems, AC circuits, operational amplifiers, diodes, transistors, gates, combinational and sequential logic, filters, oscillators, control systems, digital circuits.

Prerequisites: PHYS 111-4

PHYS 307-3 Selected Topics in Environmental Physics A survey of such topics as atmospheric cycles, thermal radiation and molecular absorption, pollution of the atmosphere, the Greenhouse effect, ozone depletion in the stratosphere, environmental aspects of nuclear energy and waste, the radon problem.

Pre- or co-requisites: PHYS 101-4 or PHYS 111-4

PHYS 310-3 Classical Electromagnetism - I First part of a two-semester course in electrodynamics: the electric field and the scalar potential; Coulomb's and Gauss's laws; Poisson's and Laplace's equations; boundary-value problems in electrostatics; electric multipoles; electric energy and forces; dielectric materials and continuity conditions; the magnetic field and the vector potential; Ampere's law; magnetic materials; magnetic energy and forces.

Prerequisites: MATH 201-3, PHYS 202-3

PHYS 400-3 Quantum Mechanics II Continuation of Quantum Mechanics I. Covers: matrix formulation, perturbation theory, approximation methods, scattering theory, many-particle problems, identical particles, spin and statistics, atomic and molecular systems.

Prerequisites: PHYS 302-3

COURSE DESCRIPTIONS: PHYSICS, POLITICAL SCIENCE

PHYS 401-3 Seminar on Contemporary Topics in Physics Special topics from current areas of research in basic and applied physics.

Prerequisites: permission of the instructor

PHYS 402-3 Physics Research Project Experimental or theoretical research project conducted by the student under the supervision of a faculty member.

Prerequisites: permission of the instructor

PHYS 404-3 Solid State Physics Physics of the solid state of matter. Covers: theories of metals, crystal lattices, reciprocal lattice, periodic potentials, electron dynamics, band structures, conduction in metals, phonons in metals, semiconductors, diamagnetism and paramagnetism, superconductivity.

Prerequisites: PHYS 302-3

PHYS 406-3 Subatomic Physics Properties and structure of subatomic particles, symmetries and conservation laws, electromagnetic, weak, and hadronic interactions, beta decay, alpha decay, gamma decay, models of nuclear structure, nuclear reactions, fission, fusion, quarks and hadron spectroscopy.

Prerequisites: PHYS 302-3

PHYS 407-3 Statistical Mechanics Kinetic theory of gases, laws of thermodynamics, probability theory, probability distributions, equilibrium statistical ensembles, ideal gases, phase transitions, critical phenomena, quantum statistics.

Prerequisites: PHYS 302-3

PHYS 408-4 Experimental Methods in Physics A survey of the methods and techniques involved in modern physics research. Topics include particle accelerators, particle detectors, spectrometers, electron microscopes, lasers, cryogenics, vacuum technology, electronics, data acquisition systems, computation, statistical analyses.

Prerequisites: permission of the instructor

PHYS 409-3 Mathematical Methods in Physics A survey of the methods and techniques involved in the formulation and solutions of physics problems. Topics include matrix algebra and group theory, eigenvalue problems, differential equations, functions of a complex variable, Green's functions, special functions, Fourier series, integral equations, calculus of variations, and tensor analysis.

Prerequisites: permission of the instructor

PHYS 410-3 Classical Electromagnetism - II Second part of a two-semester course in electrodynamics: Faraday's induction law; inductance; Maxwell's equations; generation and propagation of electromagnetic waves; plane waves; spherical waves; reflection and refraction; wave guides; electric dipole radiation; magnetic dipole radiation; antennas.

Prerequisites: PHYS 310-3, MATH 332-3

PHYS 412-3 Physics of Medical Imaging The physical techniques in diagnostic medicine. Both the physical principles and the technical aspects are emphasized. Topics include optical microscopy, X-ray imaging, magnetic resonance imaging, positron emission tomography, radioisotope imaging, and ultrasound.

Prerequisites: permission of the instructor

PHYS 413-3 Radiological and Health Physics The principles and techniques of radiotherapeutic medicine. Topics include ionizing radiations and their biological effects, radiation dosimetry, radiation protection, radiotherapy, instrumentation for radiation monitoring, and cancer therapy with particle beams.

Prerequisites: permission of the instructor

PHYS 415-3 Physics of the Environment Application of thermodynamics, fluid dynamics, chaos, and atomic/molecular physics to such topics as atmospheric phenomena and cycles, turbulence, water and contaminant movement, pollution of the atmosphere, ozone depletion, influence of solar activity, and the Greenhouse effect.

Prerequisites: permission of the instructor

PHYS 416-3 Physical Techniques in Environmental Science The principles, technical aspects, and applications of such methods as remote sensing, mass spectrometry, optical and electron microscopy, X-ray diffraction, neutron activation, particle-induced X-ray emission, Rutherford back-scattering, synchrotron radiation, and NMR.

Prerequisites: permission of the instructor

■ Political Science

POLS 100-3 Contemporary Political Issues An introduction to the basic concepts of political science through an examination of contemporary political issues: local, provincial, national and international.

Prerequisites: none

POLS 200-3 Canadian Government and Politics How Canadians organize their joint efforts to govern themselves at local, provincial, and federal levels. Attention is directed towards the political culture and its realization in constitutional rules of the game, in different institutions, and in the varied ways of influencing what governments do.

Prerequisites: none

POLS 202-3 Comparative Government and Politics Introduction to the comparative study of states and societies around the world.

Pre- or co-requisites: POLS 100-3 or permission of the instructor

POLS 204-3 History of Political Thought A survey of the development of political, economic and social philosophy from Plato to the modern period and its relevance to the contemporary world.

Prerequisites: POLS 100-3 or permission of the instructor

POLS 205 Philosophy of Science A service course intended to introduce students to the conceptual/logical foundations of sciences. Topics include the nature of logic, scientific explanation, law, theories, use of probability and statistics, role of ethics and politics in science.

Prerequisites: none

Precluded: PHIL 201-3

POLS 220-3 Canadian Law and Aboriginal Peoples An examination of the constitution, Indian Act, treaties, court decisions, and laws as they relate to the government and politics of aboriginal peoples.

Prerequisites: POLS 100-3 or FNST 100-3, or permission of the instructor

Precluded: FNST 250-3

POLS 250-3 Law and Municipal Government

Introduction to legislation, regulations, and court decisions relative to municipal governments in British Columbia.

Prerequisites: POLS 100-3

POLS 251-3 Local Services and Public Policy A study of the various local services and the challenges involved in the delivery to local communities, including public works, protective services, refuse collection, recreation and cultural services, health and social services and environmental protection.

Prerequisites: POLS 100-3

POLS 260-3 Politics of Public Finance Introduction to local budgeting, including assessment, taxation collection, the development of local budgets, provincial and federal government transfers and long-term financial planning.

Prerequisites: POLS 100-3

POLS 300-3 Modern Political Thought A survey of contemporary political, economic and social philosophy.

Prerequisites: upper division standing or permission of instructor

POLS 302-3 Canadian Public Administration Business-government relations, the making of budgetary policies, public enterprises, and the operations of regulatory authorities make up some of the most important factors that affect the way Canada works and constitute the core of Canadian public administration.

Prerequisites: upper division standing

POLS 303-3 Democracy and Dictatorship A comparative study of the struggle for democracy and its alternative through a survey of different approaches to political development.

Prerequisites: none

POLS 305-3 United States Politics Organization and function of the United States government. Examination of the constitution, political parties, electoral system, voting record, state's rights, checks and balances.

Prerequisites: upper division standing

POLS 308-3 Japanese Politics and Government An analysis of Japan's political development, and an examination of its contemporary politics, government, economics and relations with its neighbours.

Prerequisites: upper division standing

POLS 311-3 Russian Politics and Society An examination of selected challenges in contemporary Russian politics from a comparative perspective including constitution, federalism, economic reform, political culture, national and social movements with a focus on the prospects for democracy.

Prerequisites: upper division standing

POLS 313-3 Women and Politics Women and contemporary politics, feminist theories and analyses.

Prerequisites: upper division standing or permission of instructor

POLS 314-3 European Politics and Government An examination of the politics and government of selected countries in Europe.

Prerequisites: upper division standing

POLS 316-3 Community Government and Politics A survey of approaches to the study of local government, with special attention to citizens participation, and administrative efficiency in municipal politics.

Prerequisites: upper division standing

POLS 317-3 Politics and Ethics Major ethical problems of modern political society such as abortion, capital punishment, euthanasia, civil disobedience, and native rights.

Prerequisites: upper division standing

POLS 325-3 Canadian Politics and Identity An examination of the major issues surrounding "Identity politics" in Canada. Topics include regionalism, political culture, alienation, self-determination and nationalism.

Prerequisites: upper division standing

COURSE DESCRIPTIONS: POLITICAL SCIENCE

POLS 326-3 Canadian Constitution A study of the implications of the Canadian Constitution and the Charter of Rights and Freedom for Canadian politics.

Prerequisites: POLS 200-3

POLS 332-3 Community Development How can communities develop politically, economically and socially, in ways that serve their needs and are appropriate to their environment, culture and expectations? The nature and interpretations of community development will be explored, using experiences from Canada, the Circumpolar North and the Asia-Pacific region.

Prerequisites: upper division standing or permission of the instructor

POLS 333-3 Politics and Government of BC A survey of the many faces and challenges of BC politics, with specific attention to political culture and parties, the political economy, government and administration, and contemporary issues.

Prerequisites: upper division standing or permission of the instructor

POLS 335-3 Community Politics Political questions dealing with citizen participation, liberal democracy and administrative efficiency in municipal and regional settings. Case studies including a diversity of issues such as community policing, sustainable economic development, downtown revitalization and local politics in the North.

Prerequisites: POLS 100-3 or upper division standing

POLS 340-3 First Nations Self-Government and Administration An examination of government and administration of First Nations communities in Canada today and the implications of self-government for these communities. Some field study will normally be included in the course.

Prerequisites: POLS 100-3, 200-3

POLS 400-3 Classics in Political Theory A close analysis of a classic treatise in political theory from antiquity to the present. Texts will vary on a yearly basis.

Prerequisites: POLS 204-3, 300-3, or permission of instructor

Precluded: POLS 600-3

POLS 401-3 Resource Politics An examination of the roles which natural resources and the environment have come to play within the contemporary political system. Emphasis on Canada and British Columbia.

Prerequisites: restricted to fourth year students or by permission of the instructor

POLS 402-3 Canadian Public Policy Systematic examination of current policy issues with particular attention

to topics related to communications, transportation, technology and BC's position in Canada.

Prerequisites: restricted to fourth year students or by permission of the instructor

POLS 403-3 Social and Health Policy and Administration The evolution of social and health services in Canada in a comparative context. The provision of public services, federal-provincial relations and the development of community health and social services.

Prerequisites: restricted to fourth year students or by permission of the instructor

POLS 405-3 Politics of Democratic Transition A comparative analysis of the challenges of political, economic and social transition in post Communist Europe.

Prerequisites: restricted to fourth year students or permission of the instructor

POLS 408-3 Business-Government Relations Government and politics together make up one of the most important variables that business faces in a modern economy. Problems examined include the regulatory process, tax policy administration, labour relations law, lobby practices, and local building codes. These questions and others relating to the appropriate role of the modern state in the economy constitute the major concerns of this course.

Prerequisites: restricted to fourth year students or by permission of the instructor

POLS 412-3 Comparative Aboriginal State Relations A comparative study of relations between modern states and aboriginal peoples, and the quest by aboriginal peoples for self-determination.

Prerequisites: POLS 202-3 and upper division standing or permission of the instructor

Precluded: POLS 612-3

POLS 413-3 Democracy and Human Rights A comparative examination of political transformation with a focus on prospects for more democratic systems, links between economic change and political change and differing conceptions of human rights. Case studies will be drawn from various countries.

Prerequisites: restricted to fourth year students or by permission of the instructor

POLS 414-3 Comparative Federalism A comparative examination of the theories, development, and problems of federalism in countries such as Russia, Canada, Germany, United States, Australia and Switzerland.

Prerequisites: restricted to fourth year students or by permission of the instructor

POLS 415-3 Comparative Northern Development An examination of the strategies and challenges of northern development, including political administration, resource development, the environment and indigenous peoples in Russia, Scandinavia, Alaska and Canada.

Prerequisites: restricted to fourth year students or by permission of the instructor

POLS 430-3 Comparative Self-Government A comparative study of theories and practices of local and regional self-government around the world.

Prerequisites: upper division standing and POLS 200-3, 202-3

Precluded: POLS 630-3

POLS 440-3 Internship I Students with proposals relating to possible credit for an internship arrangement should consult the Program advisor well in advance.

Prerequisites: restricted to fourth year students and by permission of the Program Chair

POLS 441-3 Internship II Continuing Internship

Prerequisites: restricted to fourth year students and by permission of the Program Chair

POLS 498-3 Special Topics in Political Science Content of course will vary according to instructor and student requests.

Prerequisites: restricted to fourth year Political Science students and by permission of the Program Chair

POLS 499-3 Independent Study Content of course will vary according to instructor and student requests.

Prerequisites: restricted to fourth year and graduate students and by permission of the Program Chair

■ Psychology

PSYC 101-3 Psychology as a Science This course describes psychology as a basic science in two logical modules: psychology as a natural science and psychology as a social science. May be taken concurrently with PSYC 102-3.

Prerequisites: none

PSYC 102-3 Psychology and Human Problems This course describes how psychological science has been applied to understanding and dealing with many of the practical problems of human existence. Topics addressed include the promotion of healthy human development, health science applications of psychology, including the description and treatment of psychological disorders and the contribution of psychology to the understanding and modification of social problems.

Prerequisites: PSYC 101-3

PSYC 200-3 Contemporary Issues in Psychology This course deals with how concepts from psychology may be addressed to topics of current public interest. Examples of issues that may be included are psychological issues in the north, family violence, psychology and the justice system, modelling intelligent behaviour. The theme of the course will be updated each year and advertised in advance.

Prerequisites: PSYC 101-3, 102-3

PSYC 215-4 Research Design and Methodology in Psychology This course provides an introduction to basic research design and the methods psychologists use to investigate behaviour and mental processes, with particular emphasis on experimental methodology. The course provides students with hands-on experience in research design, data collection and writing research reports in APA style.

Prerequisites: PSYC 101-3, 102-3

PSYC 220-3 Psychology of Gender and Gender Relations An introduction to contemporary issues related to differences in the experience and behaviour of males and females.

Prerequisites: PSYC 101-3, 102-3

Precluded: PSYC 402-3

PSYC 240-3 History of Psychology This course addresses the development of theories, systems and schools of psychology, from its philosophical roots to its current emphases.

Prerequisites: PSYC 101-3, 102-3

PSYC 301-3 Social Psychology This course examines human behaviour in its social context. Specific topics covered include interpersonal interaction, social motivation and attitudes, prejudice, socialization and communication.

Prerequisites: PSYC 101-3, 102-3

PSYC 303-3 Introduction to Abnormal Psychology An introduction to the study of abnormal behaviour. Topics include the history of psychopathology, definitions of abnormality, classification and assessment, models of psychopathology and an introduction to the specific syndromes of abnormal behaviour.

Prerequisites: PSYC 101-3, 102-3

PSYC 306-3 Theories of Personality An introduction to the study of personality. Influential models of personality structure and function are examined as are techniques for personality assessment.

Prerequisites: PSYC 101-3, 102-3

PSYC 307-3 Motivation and Emotion This course addresses the properties and determinants of motivated behaviour and emotional states. Topics include eating and

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drinking, defence, sexual behaviour and the nature, structure and mechanisms of emotion.

Prerequisites: PSYC 101-3, 102-3

PSYC 309-3 Introduction to Health Psychology An introduction to behavioural health science.

Prerequisites: PSYC 101-3, 102-3

PSYC 315-4 Design and Analysis of Psychological Research I This course addresses the design, description and analysis of psychological research. Principles of research design will be taught, along with common methods for analyzing data from descriptive statistics through correlational and non parametric techniques to analysis of variance. Multivariate methods will be introduced. Research design and analysis issues will be addressed in an integrated manner.

Prerequisites: PSYC 101-3, 102-3, 215-4

PSYC 316-4 Design and Analysis of Psychological Research II A continuation of Psychology 315-4, addressing the design, description and analysis of psychological research.

Prerequisites: PSYC 101-3, 102-3, 215-4, 315-4

PSYC 317-3 Psychobiology An introduction to the study of the biological roots of behaviour. This course addresses the structure and function of the nervous system and its role in psychological processes, including perception, emotion, motivation, cognition, memory and overt behaviour.

Prerequisites: PSYC 101-3, 102-3

PSYC 318-3 Sensation and Perception An introduction to the study of sensory processes. Topics include vision, audition, taste, olfaction and somesthetic senses. These will be taught within the context of the physiological and psychophysical methods that give rise to knowledge in this field.

Prerequisites: PSYC 101-3, 102-3

PSYC 320-3 The Psychology of Learning An introduction to the study of learning. Topics covered include classical and operant processes, and cognitive models of response acquisition and change.

Prerequisites: PSYC 101-3, 102-3

PSYC 330-3 Cognition This course provides an introduction to current research and theories of human mental processes and the methods used to study them. Topics may include attention, memory processes and systems, concept formation, language processing, problem solving, reasoning, and judgment and choice.

Prerequisites: PSYC 101-3, 102-3

PSYC 345-3 Lifespan Development This course addresses the development of psychological abilities and characteristics and the mechanisms that subserve them. The full range of the human lifespan, from the prenatal period to the senior years, is examined.

Prerequisites: PSYC 101-3, 102-3

PSYC 401-3 Advanced Social Psychology Advanced issues in the examination of human behaviour in its social context.

Prerequisites: PSYC 101-3, 102-3, 215-4, 301-3

PSYC 403-3 Patterns of Psychopathology and Their Treatment This course addresses major syndromes of abnormal behaviour, introducing students to the major biological and experiential theories of their origins. Approaches to treatment are also addressed.

Prerequisites: PSYC 101-3, 102-3, 215-4, 303-3

PSYC 405-3 Clinical Psychology This course deals with the contemporary practice of clinical psychology. Topics include the role of the clinical psychologist, psychological assessment, the conduct of psychological therapies and ethical issues.

Prerequisites: PSYC 101-3, 102-3, 215-4, 303-3

Co-requisites: PSYC 403-3

PSYC 409-3 Advanced Health Psychology Advanced issues in the field of health psychology. Topics include psychosocial epidemiology, health behaviour and its determinants, stress and its management, the modification of health-related behaviour, disease prevention and health promotion.

Prerequisites: PSYC 101-3, 102-3, 215-4, 309-3

PSYC 415-3 Advanced Developmental Psychology This course deals with advanced issues in the field of developmental psychology. Topics may include development of the self, sex differences in interpersonal styles, adolescent problems such as drug and alcohol abuse, pregnancy and suicide, parenting, divorce, families, adulthood, death and bereavement, or successful aging.

Prerequisites: PSYC 101-3, 102-3, 215-4, 345-3

PSYC 417-3 Behaviour Modification The application of behavioural and social learning concepts to the change of problematic human behaviour.

Prerequisites: PSYC 101-3, 102-3, 215-4

PSYC 418-3 Advanced Issues in Perception and Sensation This course provides a treatment of advanced questions in the study of perception. Building on an understanding of fundamental sensory mechanisms, this course provides further exploration of the mechanisms of perception and the manner in which perceptual processes are

integrated with such other psychological processes as attention, learning, memory and cognition. Mechanisms will be highlighted by discussion of such specific topics as the perception of pain, emotion and speech.

Prerequisites: PSYC 101-3, 102-3, 215-4, 318-3

PSYC 419-3 Neuropsychology An introduction to sensory, motor, cognitive and affective disorders resulting from brain damage and dysfunction.

Prerequisites: PSYC 101-3, 102-3, 215-4, 317-3

PSYC 427-3 Cross-cultural Psychology This course deals with cultural differences in behaviour, with a special emphasis on intercultural issues in pluralistic societies.

Prerequisites: PSYC 101-3, 102-3, 215-4, 301-3

PSYC 430-3 Advanced Cognitive Psychology Advanced issues in the study of cognition. Topics may include models of memory, implicit learning, decision theory, computer simulation of thought and action.

Prerequisites: PSYC 101-3, 102-3, 215-4, 330-3

Laboratories: Courses in the 435 - 497 series are restricted to Psychology majors only. Ordinarily, these will be restricted to students in their fourth year of studies.

PSYC 435-3 Methods in Psychobiology This course provides experience in laboratory methods in psychobiology.

Prerequisites: PSYC 101-3, 102-3, 215-4, 317-3

PSYC 440-3 Methods in Learning This course addresses the common laboratory methods used in the study of conditioning and learning.

Prerequisites: PSYC 101-3, 102-3, 215-4, 320-3

PSYC 442-3 Methods in Developmental Psychology This course addresses experimental and observational methods used in developmental psychology.

Prerequisites: PSYC 101-3, 102-3, 215-4, 345-3

PSYC 445-3 Methods in Perception and Psychophysics This course provides exposure to the psychophysical techniques used in the study of human sensory systems and perception.

Prerequisites: PSYC 101-3, 102-3, 215-4, 318-3

PSYC 450-3 Tests and Measures This course provides exposure to the design, conduct and interpretation of common techniques for describing human thoughts, feelings, and behaviours.

Prerequisites: PSYC 101-3, 102-3, 215-4

PSYC 455-3 Methods in Social Psychology This course addresses experimental and observational techniques commonly used to test hypotheses about human social behaviour.

Prerequisites: PSYC 101-3, 102-3, 215-4, 301-3

PSYC 460-3 Methods in Cognitive Psychology This seminar style course allows students to discuss, present and critically evaluate research on human mental processes, with particular emphasis on methodological issues.

Prerequisites: PSYC 101-3, 102-3, 215-4, 330-3

PSYC 465-3 Computers in Psychology This course provides advanced training in the application of computer technology to common problems in psychology, including experimental control, stimulus representation, response acquisition and storage and data processing. Restricted to upper division Psychology students.

Prerequisites: PSYC 215-4

PSYC 470-3 Psychophysiology An introduction to the measurement of physiological responses to psychological conditions.

Prerequisites: PSYC 101-3, 102-3, 215-4 and one of 301-3, 306-3, 307-3, 309-3, 317-3

PSYC 475-3 The Evaluation of Social Programs An introduction to the methods and processes of program evaluation. Topics covered include needs assessment, the development of measures, formative and summative evaluation.

Prerequisites: PSYC 215-4 or permission of the instructor

PSYC 480-3 Critical Analysis in Psychology and the Health Sciences This course addresses the logic of drawing conclusions in psychology and the health sciences. Through an analysis of the requirements for conducting reviews of the literature on a particular topic, the process of summarizing findings, the conduct of clinical trials and their analysis, students will be exposed to common pitfalls in and prerequisites for the establishment of knowledge.

Prerequisites: PSYC 215-4 or permission of the instructor

PSYC 485-3 Current Topics in Psychological Research This course provides exposure to advanced laboratory methods applied to areas of emerging interest in psychology.

Prerequisites: PSYC 215-4 and upper division standing and permission of the instructor

PSYC 490-3 Honours Thesis I An independent research project. Credit for PSYC 490-3 will be based on the introduction and proposed methodology for the project.

Prerequisites: PSYC 215-4

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PSYC 495-3 Honours Thesis II An independent research project. Credit for PSYC 495-3 will be based on a report of the results and implications of the project.

Prerequisites: PSYC 215-4

PSYC 497-3 Senior Seminar An integrative seminar for advanced students. Restricted to fourth year Psychology students.

Prerequisites: PSYC 215-4, registered in fourth year

PSYC 498-3 Special Topics in Psychology A course on a special topic, delivered in a lecture or seminar format. No more than three credit hours in Special Topics courses may be applied toward a major in Psychology.

Prerequisites: PSYC 215-4 and upper division standing and permission of the instructor

PSYC 499-(3-6) Independent Study A course on a selected topic based on readings directed by an instructor. The course format and requirements will be based on a formal contract with the instructor. No more than six credit hours in Independent Study courses may be applied toward a major in Psychology.

Prerequisites: PSYC 215-4 and upper division standing Psychology major and permission of the instructor

■ Resource Recreation and Tourism

RRT 201-3 Introduction to Resource Recreation Management Concepts of leisure opportunities, historical development; current problems and trends in resource recreation and tourism. Economic impact of resource based recreational development.

RRT 203-3 Introduction to Resource-Based Tourism Survey of the principles and concepts of tourism at the regional, national and international levels. An introduction to the tourism industry and its role in the economy with an emphasis on present resource attractions in Western Canada.

RRT 301-3 Interpretive Techniques Principles and practice of interpretation as a component of resource recreation. Natural history as a basis for recreational opportunities.

Pre- or co-requisite: RRT 302-3

RRT 302-3 Wildland Recreation Federal, provincial and local involvement in wildland recreation. Examines various management strategies and challenges of the management of resource recreation environments.

Prerequisites: RRT 201-3 or 203-3

RRT 303-3 Areas and Facilities Planning Evaluation of planning and design principles for resource recreation and tourism settings and facilities development. Site limitations,

visitor needs and expectations, and other considerations for planning and implementation are examined.

Prerequisites: RRT 201-3

RRT 304-3 Organization and Management of Recreation and Tourism Concepts, theory and practice of administration and the management of resource recreation and tourism systems. Includes management concepts related to revenue, budgeting, legal obligations and liabilities and evaluative functions.

Prerequisites: 60 credit hours including RRT 201-3 or 203-3

RRT 310-4 Resource Valuation Valuation for Resource Recreation and Tourism. Contemporary issues in the allocation of scarce natural and cultural resources in creating provincial, federal and private systems of parks, wilderness and other protected areas.

Prerequisites: ECON 100-3 or permission of the instructor

Precluded: FSTY 310-4

RRT 333-3 Field Camp All Resource Recreation and Resource-Based Tourism majors must take a field camp between semester six and seven or after semester eight.

Precluded: BIOL 333-3 and FSTY 333-3

RRT 401-3 Commercial Recreation and Tourism Business factors relevant to the development of resource-based recreation and tourism opportunities. Marketing, financial analysis and other business-related activities are examined. Guiding/outfitting and other small business activities relevant to northern BC are included.

Prerequisites: RRT 203-3 and 304-3 or permission of the instructor

RRT 402-3 Recreation for Special Needs Methods and concerns of recreational planning for special populations. Institutional, community, and dispersed recreational settings are considered.

Prerequisites: RRT 201-3

RRT 404-3 Recreation Enterprises and Ecotourism Development Opportunities for educational (remote from source) and tourism commercial development based on special or unique ecological considerations such as landform, wildlife, rain forests etc. are examined.

Prerequisites: RRT 304-3 or permission of the instructor

RRT 406-3 Parks Planning and Management Planning and management of parks at regional, provincial, national and international levels. The roles of parks and protected areas in meeting national/provincial conservation and sustainable development strategies.

Prerequisites: RRT 302-3 or permission of the instructor

RRT 408-3 Social and Behavioural Dimensions of Recreation and Tourism Examines individual and social factors that shape personal perception, experience and behaviors in a recreation and tourism setting.

Prerequisites: upper division standing

RRT 410-3 Research and Analysis in Recreation and Tourism This course examines contemporary research in resource recreation and tourism, with special emphasis on the critical review of methodologies, adaptive techniques and theoretical foundations and models.

Prerequisites: MATH 242-3 or ECON 205-3, 90 credit hours or permission of the instructor

Precluded: NREM 610-3

RRT 412-3 Issues and Trends in Resource Recreation and Tourism This seminar examines current issues and problems in resource recreation and tourism, and explores philosophical, historical and contemporary trends and issues in resource recreation, parks and tourism. The future outlook for management, administration and utilization of recreation and tourism resources in BC will be examined.

Prerequisites: 90 credit hours or permission of the instructor

Precluded: NREM 612-3

RRT 413-3 Visitor Management Theories and applications in the various aspects of visitor management in relationship to wildlands and other natural resource areas. Visitor behaviours, expectations, and motivations for visiting natural landscapes will be covered.

Prerequisites: RRT 302-3 or permission of the instructor

Precluded: NREM 613-3

RRT 440-(2-6) Internship May be repeated for credit (maximum six credit hours).

RRT 498-(1-3) Special Topics May be repeated for credit (maximum three credits).

RRT 499-(1-6) Independent Study May be repeated for credit (maximum six credit hours).

■ Social Work

SOCW 200-3 Introduction to Social Work Practice Provides an overview of social work practice including the historical, political, philosophical and practical bases in Canadian society. It introduces students to the values, concepts and the Code of Ethics of Social Work. There is also an overview of current social problems and related fields of practice.

Prerequisites: none

SOCW 201-3 Introduction to Social Welfare Introduces students to the welfare state in Canadian society. It examines historical, ideological and contemporary issues in the Canadian

welfare state and reviews some of the major programs, policies and concerns confronting policy makers, social workers and client groups.

Prerequisites: none

Note: Social Work **required** courses at the 300 and 400 levels may be taken only by those students admitted into the program. Social work **elective** courses may be taken by other UNBC students depending on space and permission of the Program Chair. The elective courses may be of particular interest to students in Nursing, Education, Psychology, Political Science, Women's Studies and Public Administration. Priority is given to admitted Social Work students.

Students admitted to the Bachelor of Social Work program are required to withdraw from the Bachelor of Social Work program if they register a second fail in Social Work Field Education (SOCW 302-6 and/or SOCW 402-15).

SOCW 300-3 Social Work Communication Skills

Communication Skills in Social Work Practice is an introductory course that aims to increase skills and analysis in the diverse cultural settings that are appropriate to social work among First Nations and remote, northern and rural communities. Learning to recognize the contradictions in people's experiences and to maximize the possibilities, resources and strengths in their lives are critical aspects of a social worker's practice. Emphasis on integration of interpersonal and analytic skills in learning effective helping strategies within a structural framework that acknowledges the influence of class, race and gender in shaping personal and social well-being. This course includes a Skills Laboratory.

Prerequisites: enrolment limited to students admitted to the Social Work program

SOCW 301-3 Critical Social Work Practice This course critically examines the historical origins, values, methods and applications of various social work practice approaches. With an emphasis on structural, feminist, and First Nation social work strategies, the focus includes the application of these approaches to women, minority groups, First Nations, and residents of northern and remote communities. These will be contrasted with other models of social work practice including general systems theory, ecological theory, and case management.

Prerequisites: enrolment limited to students admitted to the Social Work program

SOCW 302-6 Social Work Field Education An initial three-day per week field placement is required of all students. Students will be involved in a wide range of practice roles and responsibilities at the individual, family, group and community levels. The course provides an initial opportunity for students to link social work concepts and theory with practice skills. It also introduces students to the structure, goals and operation of different human service agencies. Field practice objectives and details will be worked out among the student, the agency field supervisor and the faculty practicum advisor. The three-day per week placement includes a bi-weekly integrative seminar.

Prerequisites: SOCW 300-3 and 301-3; enrolment limited to students admitted to the Social Work program

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SOCW 320-3 Critical Social Policy This course examines the development of social policy in Canada, including current debates, from conventional and critical perspectives inviting students to consider the relationship between research, policy and social work practice. The course will review ideologies of social welfare policy, its formulation and implementation and consequences for people in need. Policy formulation will be analyzed from a critical perspective that examines the role of power and privilege in the construction of social policy. Alternative social arrangements and models of policy and practice will be explored.

Prerequisites: enrolment limited to students admitted to the Social Work program

SOCW 330-3 Social Work Research/Policy/Practice Social Work Research, Policy and Practice introduces research methods and analysis techniques that are used to examine issues in the policy and practice of social work and social welfare. It reviews qualitative and quantitative approaches with an emphasis on community needs research, participatory research and the development of interview schedules and questionnaires. The methods examined in this course will be linked to substantive policy and practice issues that reflect the economic, social and personal circumstances of people and communities in northern, remote and First Nation communities.

Prerequisites: enrolment limited to students admitted to the Social Work program

SOCW 336-3 Social Work Philosophy and Ethics Social Work Philosophy and Ethics critically assesses the ethical issues involved in carrying out the tasks of social work practice, policy and research. Using the Social Work Code of Ethics as a starting point, these practice, policy and research roles are considered in the context of northern and remote social work. The course reviews different theoretical approaches to social work.

Prerequisites: enrolment limited to students admitted to the Social Work program

SOCW 401-3 Northern/Remote Social Work Practice Northern and Remote Social Work Practice builds on the structural approach examined in SOCW 301-3. Critical generalist practice will be examined within the context of current and emerging client populations and practice issues. The course aims to develop a critical awareness/analysis of the nature, cause and response of social workers to the social problems they are meant to deal with in the field practice aspects of their work in northern and remote communities.

Prerequisites: all 100, 200, and 300 level required courses in Social Work

SOCW 402-15 Social Work Field Education 2 This field placement requires students to perform in a social work role or organizational setting five days per week through the entire term. Field education will provide undergraduate students with an opportunity to enhance and refine their social work skills. As much as possible the assigned field education setting will

broadly match the particular type of social work experience that the student wishes to pursue. The course includes four one-day seminars as part of the field education placement.

Prerequisites: all 100, 200, and 300 level requirements, SOCW 401-3, enrolment limited to students admitted to the Social Work program

SOCW 402A-12 Pre-MSW Field Education This practicum is for students enrolled in the Pre-MSW program. It represents the major practicum before moving on to the final MSW year. It is required by all Pre-MSW students. This course gives students an opportunity to recast their practice experiences into a social work practice and policy theoretical framework. It is geared to the student's social work thinking and skill development with communities, individuals, families and groups within a field practice setting in this region of British Columbia. Students will usually become involved in the professional practice and delivery of social work within the setting of an agency. A weekly Seminar/Skills Review Lab permits students to reflect on their practice experience. This seminar assists in the integration of theory and practice by broadening the professional knowledge base through the sharing of experience and practice.

Prerequisites: SOCW 300-3, 301-3, 320-3, 401-3 plus one elective or concentration course

SOCW 410-3 First Nations Social Work Issues First Nations Social Work Practice Issues examines methods of developing an anti-racist social work practice in the context of First Nations experience. Particular emphasis is placed on understanding emerging models and structures within First Nations communities. The development of these models is explored within a context of analyzing the impact of the colonial experience. Students are introduced to alternative methods including some of the healing strategies and organizational structures in First Nations communities.

Prerequisites: enrolment limited to students admitted to the Social Work program

SOCW 420-3 Family/Child Welfare Policy Family and Child Welfare Policy focuses particularly on feminist and First Nations critiques of child welfare policy and social work intervention. It critically examines assumptions in family and child welfare policy including notions of family, substitute care, conceptions about violence and neglect, and the implications of child and welfare policy for social work practice in northern communities.

Prerequisites: enrolment limited to students admitted to the Social Work program

SOCW 421-3 Human Growth and Development Examines human growth and development with an emphasis on social processes from birth to death. The course follows a life cycle approach and addresses the influence of issues such as culture, class, gender and sexual orientation. Linkages are drawn between individual human development and health and social welfare policy, particularly as it effects residents of northern

British Columbia. **Note: students who have not taken a human growth and development course must take this course prior to graduating with a BSW.**

Prerequisites: enrolment limited to students admitted to the Social Work program, or with permission of the Social Work Program Chair

Precluded: PSYC 345-3

SOCW 424-3 Child Welf/Sites of Resistance Sites of Resistance: Race, Poverty and Sexuality in the Fields of Child Welfare focuses on contemporary child welfare policy and practice from the standpoints of racial and sexual minorities as well as from those on the economic margins of contemporary capitalist/patriarchal society.

Prerequisites: SOCW 420-3

SOCW 426-3 Current Issues in Child Welfare Practice Current Issues in Child Welfare Practice highlights topical child welfare issues, current trends in child welfare practice, examines different methods of intervention and attempts to link changes in the economic circumstances of families to the social well being and healthy family functioning.

Prerequisites: upper division standing; enrolment limited to students admitted to the Social Work program or permission of the Program Chair

SOCW 430-3 Social Work and Profiling Communities Profiling Communities in Northern and Remote Areas is an applied social research course focusing on developing community profiles for identifying community strengths and needs as they relate to social work advocacy roles. The major aim is to teach students to access and use existing data sets to understand social work policy and practice issues in small communities. The importance of time series data and their use in isolating social, economic and demographic trends will be also be examined. The course includes a lab component.

Prerequisites: upper division standing or permission of the Program Chair

SOCW 432-3 Unemployment and Social Work Unemployment, Social Welfare and Social Work Practice examines the implications of unemployment and underemployment for social work practice and policy within a provincial, national and global context. In particular, the course will focus on the reframing of unemployment as a social work issue, explore the social consequences of joblessness, and identify models of policy and practice which are applicable in different environments: northern, rural, urban and single industry communities. Alternative policies will be explored.

Prerequisites: upper division standing; enrolment limited to students admitted to the Social Work program or permission of the Program Chair

SOCW 433-3 Women in the Human Services From a feminist and structural social work perspective, this course

examines a range of women's issues in terms of socialization, work, health, sexuality, power and the state, legal issues, and the impact these have on the roles and positions of women in Canadian society, and in particular within human and social services.

Prerequisites: upper division standing; enrolment limited to students admitted to the Social Work program or permission of the Program Chair

SOCW 434-3 First Nations/Human Services First Nations and Human Services critically examines the historical process of colonization in Canada, and its impact on First Nations peoples. Contemporary issues of self-determination and self-government are discussed in relation to social work practice and social welfare and health policy. Local control, devolution of services and emergent approaches to service delivery will be examined.

Prerequisites: upper division standing; enrolment limited to students admitted to the Social Work program or permission of the Program Chair

SOCW 435-3 Community Social Policy Community Social Policy and Social Work Practice represents a community practice project geared to integrating social work theory, policy, research and practice with specific community issues. Students will prepare public briefs on actual areas of community concern in the light of social work and welfare theory, policy and practice. The brief will focus on proposed forms of action and the implementation of the strategies of change and intervention.

Prerequisites: upper division standing; enrolment limited to students admitted to the Social Work program or permission of the Program Chair

SOCW 437-3 Social Work with Groups and Communities Social Work with Groups and Communities examines the historical evolution of group work and the role that social work has played within this context. Different types of group approaches and experiences are discussed, including professionally led groups and self-help groups. Students will consider the operation of groups through analysis of group norms, roles, values, goals and decision making from a perspective that is both theoretical and experiential.

Prerequisites: upper division standing; enrolment limited to students admitted to the Social Work program or permission of the Program Chair

SOCW 438-3 Comparative Welfare Analysis Comparative Social Welfare Analysis provides a critical introduction to Canadian and comparative social policy as it relates to evolving issues in Social Work practice. Its main theme is to show how the welfare systems of individual countries can only be understood through exploring the wider international context. Particular attention is paid to the interactions between family policies and issues of race and gender, and to the processes by which individuals or groups are given or denied access to full welfare citizenship. Topics include: principles of comparative studies; models of

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welfare; convergence versus divergence; the dynamics of welfare-state development; welfare regime analysis; crisis of the welfare states; and the impact of welfare states.

Prerequisites: SOCW 320-3 or equivalent

Precluded: SOCW 621-3

SOCW 439-3 Social Work/Law and the Justice System

Social Work, Law and the Justice System will examine various areas of the Canadian legal system: constitutional documents and conventions, the court system, the provincial legislative powers, rights of Aboriginal Peoples, the Charter of Rights and Freedoms, and provincial legislation (such as Adoption Act; Child, Family and Community Service Act; Child, Youth and Family Advocacy Act, Family Relations Act, etc). It will also examine the practice of social work in court settings.

Specifically, it will provide a basic understanding of the rights and interests of children, rules of evidence, the role of various interveners. Court writing skills will be introduced and court visits will be arranged.

Prerequisites: upper division standing; enrolment limited to students admitted to the Social Work program or permission of the Program Chair

SOCW 440-3 Social Work In Mental Health This course examines policy and practice issues pertaining to the understanding and delivery of social work services to people with a psychiatric disability. While the content will explore many ideas that are international and national in scope, the primary focus will be on the policies and practices that are relevant to people in northern British Columbia. Students will examine assessment and intervention methods as well as analyze the impact of current trends and changes in the health and social welfare system pertaining to people who require mental health services. The nature and impact of psychiatric disability is viewed from both an individual level as well as a structural level of analysis. The major emphasis will be on practice and policy issues relating to people who are sometimes described as “psychiatric survivors.”

Prerequisites: upper division standing; enrolment limited to students admitted to the Social Work program or permission of the Program Chair

SOCW 441-3 Social Work and Substance Abuse Social Work and Substance Abuse examines alcohol and other drugs in terms of their effects on individuals, families and society. It also looks at different roles of social workers and human service workers in helping people deal with and understand alcohol and drug abuse.

Prerequisites: upper division standing or permission of the Program Chair

SOCW 442-3 Social Work with Victims of Abuse Social Work with Victims of Abuse examines physical, emotional and sexual abuse and violence perpetrated on less powerful individuals. The roles played by the helping professions in this context are also examined.

Prerequisites: upper division standing or permission of the Program Chair

SOCW 443-3 Medical Social Work Focuses on the knowledge, attitudes and skills workers need to practice effectively in health care settings. Case studies will be used to demonstrate different methods of intervention in this context.

Prerequisites: upper division standing or permission of the Program Chair

SOCW 444-3 Social Work Critical Issues in Aging Critical Issues in Aging, Social Work Practice and Research examines the physical, social and psychological needs of the elderly. Adaptation of generic social work skills in effective intervention with and on behalf of the aged is also examined.

Prerequisites: upper division standing or permission of the Program Chair

SOCW 445-3 Social Work and Cross-Cultural Practice

Social Work and Cross-Cultural Practice provides interdisciplinary approaches to understanding cultural and visible minority groups in relation to society and differential access to power are examined. The course will examine and critically evaluate different methods of assistance and intervention offered by social work to minority groups.

Prerequisites: upper division standing or permission of the Program Chair

SOCW 447-3 Hinterland Social Work in an International Perspective

Draws on the comparative and international literature of social work in rural, remote and underdeveloped regions. It compares different social work approaches to working with and understanding hinterland regions and the issues confronting people living in these areas.

Prerequisites: upper division standing or permission of the Program Chair

SOCW 448-3 Inequality and Income Security Poverty, Inequality and Income Security examines the changing landscape of Canadian social policy and its implications for poverty, income inequality and income security. It reviews the evolution and devolution of major Canadian income security policies with a special focus on British Columbia. The implications of these changes on poverty and income inequality are examined for the people that live and work in northern British Columbia. This is done by looking at changes in poverty and income inequality for specific groups that include single mothers, First Nations, women, men, the unemployed and underemployed, the elderly, and those dependent on public assistance.

Prerequisites: upper division standing; enrolment limited to students admitted to the Social Work program or permission of the Program Chair

SOCW 449-3 Gender and Sexuality Gender and Sexuality: Social Constructions and Everyday Lives will critically examine constructions of gender and sexuality that include cross-cultural and class analyses. It will also focus on the historical character of sexual relations and gender and begin to challenge what is taken for granted in contemporary society

specifically as these notions affect social work policy and practice.

Prerequisites: upper division standing; enrolment limited to students admitted to the Social Work program or permission of the Program Chair

SOCW 450-3 Social Work and Family Practice Social Work and Family Practice through the application of family systems theory, will examine current approaches to working with families in community counselling settings. Completion of a family assessment, as well as a critical examination of power dynamics in families, and their connection with the larger society will be undertaken. Issues of gender, race, age, class, sexual preference, and so on, will be analyzed in this context.

Prerequisites: upper division standing or permission of the Program Chair

SOCW 452-3 Social Work/Crisis Intervention Crisis Intervention in Social Work examines the historical development of crisis intervention practice and theory. Several models of crisis intervention are presented with an analysis of their application to particular areas and fields of social work practice. Included in the fields of practice are suicide assessment and intervention, child abuse, spousal assault, physical illness and disability, psychiatric emergency and grief resolution. Analysis and discussion will centre around crisis intervention as it applies to social work practice with minority groups in northern communities. In addition to lecture and discussion material, interview and process skills will be practised in this course.

Prerequisites: upper division standing or permission of the Program Chair

SOCW 453-3 Faith, Power and Practice Faith, Power and Practice: The Impact of Religion and Spirituality on Human Service Work will provide a forum for the critical exploration of the impact and influence of religious thought and practices on human service work. The historical roots of this work are based in religious movements, aspects of which still affect today's practice/policy. In an increasingly multicultural environment, students must have a fundamental understanding of religion and spirituality in order to practice effectively.

Prerequisites: upper division standing or permission of the Program Chair

SOCW 454-3 Disability Issues This course involves students in an examination of perspectives on disability, as well as a critical analysis of current theories, policies, and practice. The course begins with an examination of common assumptions about disability and provides opportunities to challenge and critique interpretations of the nature and meaning of disability.

Prerequisites: upper division standing

SOCW 498-(3-6) Special Topics Special topic courses may be offered from time to time. These courses are available to permit

faculty to offer courses in areas that fall within their particular areas of research and expertise in social work practice and policy. With permission of the chair of the Social Work program, students may repeat the course for credit.

SOCW 499-3 Directed Readings Students can undertake a directed reading course in order to fulfill a particular learning need and area of interest. Directed readings are dependent upon the availability of faculty resources.

■ University

UNIV 101-3 Introduction to Higher Education This course is most appropriate for students who are in their first year of study at a university. It offers an introduction to the university as an institution of higher learning, an explanation of the various methods of inquiry employed therein, and demonstrations of the study skills and learning strategies that are required for academic success. Students will be encouraged and assisted to apply the information presented in this course to other courses that they are completing concurrently.

Prerequisites: none

■ Women's Studies

WMST 100-3 Introduction to Women's Studies A study of past and present women's positions in and contributions to society from a multidisciplinary perspective. Specific topics may include an historical overview of politics, law and the family, productive roles, health and illness, science, culture and philosophy.

Prerequisites: none

WMST 101-3 The Status of Women A study of legal, political, economic, and cultural issues, relating to gender relations and the social status of women in contemporary societies.

Prerequisites: none

Precluded: WMST 201-3

WMST 102-3 Women's Movements A study, from a cross-cultural perspective, of the history and philosophy of women's movements in various parts of the world.

Prerequisites: none

Precluded: WMST 205-3

WMST 202-3 Women's Work A study, from a cross-cultural perspective, of the cultural and economic definitions of work as they affect women. Consideration is given to cultural specific ways of defining gender discrete occupations, attributing social value/prestige to women's occupations and cultural production, etc.

Prerequisites: none

COURSE DESCRIPTIONS: WOMEN'S STUDIES

WMST 204-3 Comparative Gender Studies An interdisciplinary examination of the various meaning and values ascribed to gender and sexuality in history and across cultures. The course will focus on transcultural sexualities and lesbian women.

Prerequisites: none

WMST 207-3 Introduction to Feminist Ethics Providing an introduction to the contemporary literature on feminist ethics. An overview of the literature on the ethics of care, ecological feminism and the contemporary debate on maternal or essentialist feminism will be included. The theories of authors such as Gilligan, Noddings, Baier and Vandana Shiva will be discussed.

Prerequisites: WMST 100-3

WMST 209-3 Gender and Cultural Studies: An Introduction This course introduces students to questions of gender, media representation, and technology in the twentieth century. Students will examine the construction of femininity and masculinity in such visual technologies as advertising, video, television, and film. Popular print media such as Harlequin romances and comic books and popular forms of visual display such as graffiti will also be discussed. The course will also consider cultural difference in the construction and interpretation of images of men and women, and the question of access to various technological media of expression.

Prerequisites: none

WMST 210-3 Research Methods This course introduces students to a variety of research practices, including oral history, interviews, case studies, archival and library research, survey/content analysis, and field work. The course will enable students to think critically and to effectively collect, analyze and present information.

Prerequisites: none

WMST 211-3 Feminist Critical Thought This course introduces students to the philosophical, cultural, and political foundations in feminist critical thought. Students will learn about the varieties of feminist thinking such as liberal feminism, Marxist feminism, radical feminism, psychoanalytical feminism and postmodern feminism. We will discuss the significance of these various theories to applied areas of knowledge such as law, education, technology, culture and work.

Prerequisites: none

WMST 303-3 Lesbian and Bisexual Lives This course introduces students to lesbian and bisexual women studies from an historical perspective as well as focusing on contemporary contexts and issues. Students will study the diversity of political perspectives among lesbian and bisexual women and how sexuality intersects with race, class, ability and cultural differences.

Prerequisites: WMST 204-3, or permission of the instructor

WMST 304-3 Contemporary Women's Writing in an International Frame This course covers a range of contemporary women writers in an international context. Writers will be examined in relation to developments in the women's movement and in light of recent feminist literary theoretical insights into narrative, genre, and representation.

Prerequisites: none

WMST 305-3 Gender, Nationalism and Culture This course will survey the interrelationship between gender, nationalism, and culture from literary and cultural studies perspectives.

Prerequisites: WMST 101-3 or permission of the instructor

WMST 308-3 Women, Knowledge, and Education This course will examine the various meanings of experience, knowledge and higher education through time and in different parts of the world. It will introduce students to various debates about higher education for girls; compare native teaching/learning to "education" in the west; examine what counts as knowledge and who has access to it; and study the impact of modern educational technology on women's lives.

Prerequisites: none

WMST 309-3 Gender and Film This course addresses the construction of gender in films made by women and men that focus explicitly on the question of gender in relation to class, race, sexuality, ethnicity, colonialism and nationalism. We will discuss various styles of film production such as documentary realism, avant-garde and postmodern cinema, and commercially successful Hollywood films. Students will also be introduced to a variety of interpretative methods including psychoanalytical, semiotic, Marxist, feminist, and aesthetics. Note: students who have completed WMST 206-3 prior to the 1996-97 academic year, may not take this course for credit.

Prerequisites: WMST 209-3, or permission of instructor

WMST 310-3 Indigenous Women: Perspectives The purpose of this course is twofold: first to understand how Indigenous women's lives have been shaped by colonialism and secondly, to delineate the global themes in their current political and social struggles to transcend the colonial legacy that continues to constrain them.

Prerequisites: FNST 215-3 and WMST 101-3, or permission of the instructor

WMST 311-3 History of Feminist Theories This course introduces students to the diversity of feminist theoretical challenges and to the assumptions and presuppositions that underlie knowledge. Students will study European and North American historical material up to the mid-twentieth century.

Prerequisites: WMST 100-3 and 102-3 or permission of instructor

WMST 401-3 Women and Visual Pleasures: Fashion, Film, Fine Arts and Photography This course explores the visual expression of twentieth-century women artists,

photographers, fashion designers and film makers while also examining feminist critical responses to these visual forms of expression. Examples of topics for discussion will include the role of the spectator, aspects of play and domination in visual display that shape our cultural ideas of the body, gender and the difference point of view makes in film production and consumption, fur fashions and the debate between aboriginal trappers and Greenpeace.

Prerequisites: WMST 209-3 and 304-3 or permission of the instructor

WMST 402-3 Political Economy and First Nations

Women The purpose of this course is to understand how the political economy acts upon First Nations women's lives in and beyond their home communities as well as to offer comparative examples of similar processes from elsewhere in the new world and from Asia and Africa.

Prerequisites: upper division standing and permission of the instructor

WMST 403-3 Science, Technology, and Women's Lives

This course explores both historical trends and contemporary concerns regarding women, science and technology. It compares traditional First Nations knowledge and western science and investigates prevailing stereotypes of science and scientists, science as a social activity, women's role in early western science and in contemporary scientific communities, and the effects of science and technology on women's lives.

Prerequisites: WMST 101-3, 202-3, and 210-3 or permission of the instructor

WMST 404-3 Advanced Feminist Ethics This course will provide an analysis and critique of both the historical and contemporary literature on feminist ethics. Feminist ethics will be discussed in terms of the similarity or diversity of feminist theories of moral decision making to traditional deontological and consequentialist approaches.

Prerequisites: WMST 207-3 or upper division standing and permission of the instructor

WMST 407-3 Gender and International Relations This course will examine in detail topics related to women and international relations as selected by the instructor.

Prerequisites: INTS 308-3 or upper division standing and permission of the instructor

WMST 408-3 Women, Power, and Environments This interdisciplinary course deals with gendered environmental histories, issues, and concerns across cultures. It looks at the far reaching impacts of human migrations, western expansion, and warfare as well as internal environments including "chilly climates" from feminist perspectives; introduces students to debates about the social and economic consequences for women of the uneven energy developments in various parts of the world; examines power

relations and gendered adaptations and analyzes the roots of our current environmental problems. The course will also enable students to develop strategies to fight existing power relations that are detrimental to our present and our future.

Prerequisites: WMST 101-3, 210-3, 311-3 or permission of instructor

WMST 409-3 Advanced Feminist Social Science

Methodology The goal of this course is twofold: first to cover current debates in feminist methodology and second to develop appropriate research strategies for an independent research project.

Prerequisites: WMST 210-3 and 311-3 or permission of the instructor

WMST 410-3 Feminist Political Philosophy This course will provide an analysis and critique of both the historical and contemporary literature on feminist political philosophy from its enlightenment roots to its contemporary post-modernist critique on enlightenment notions of rationality. Students will study primary sources from the political writings of Wollstonecraft, Engels, Harriet Taylor Mill, de Beauvoir, Millett, Hartsock and Haraway.

Prerequisites: upper division standing and permission of the instructor

WMST 411-3 Contemporary Feminist Theories

This course covers the recent history of feminist theories beginning with Simone de Beauvoir's *The Second Sex*. Students will also read a selection of contemporary writers such as Adrienne Rich, Audre Lorde, Sheila Rowbotham, bell hooks, Cynthia Enloe, Nawal el Saadawi and Jeannette Armstrong. The course focuses on the intersections among race, class, sexuality, gender and decolonization that this history of writing has brought to the center of current feminist critique.

Prerequisites: WMST 311-3 or permission of instructor

WMST 440-3 Internship in Women's Studies

Prerequisites: upper division standing and permission of the instructor

WMST 498-3 Selected Topics in Women's Studies

The course will examine in detail topics selected by the instructor.

Prerequisites: permission of the instructor

WMST 499-3 Independent Study in Women's Studies

This course enables students to read in depth in an area of women's studies not normally covered by established principal or ancillary courses in the Women's Studies program.

Prerequisites: permission of the Program Chair

Regulations and Policies

■ Guidelines for Student Conduct

Statement of Principles

The University of Northern British Columbia acknowledges that students have the right to work, learn and socialize in a supportive, safe and healthy environment.

The University of Northern British Columbia is committed to developing a sense of community that is dedicated to creating a working and learning environment of the highest quality, one which is characterized by mutual respect, consideration, social and moral development of its members, free from harassment, discrimination and any form of disruptive behaviour or violence.

The University of Northern British Columbia understands and recognizes that students have responsibility for:

- taking full advantage of education, training and services offered
- their conduct, either individually or in a group
- conducting their activities in a manner compatible with the University's commitment to creating a safe and supportive working and learning environment
- respecting and treating members of the University community without discrimination, harassment, intimidation, physical or psychological abuse
- respecting University property and the property of members of the University community
- respecting University regulations and the exercise of legitimate authority
- respecting due process, including the avenues of redress and appeals as stated by the University
- informing themselves about University policies and procedures
- participating in the governance of the University

Definition

University community includes members of: the student body, faculty, staff, administration, Board of Governors, and Senate.

Purpose

The purpose of this policy is:

- to define the basic Code of Conduct for students as members of the University community
- to establish policies and procedures that will determine actions to be taken in the event of unacceptable, disruptive, threatening or violent behaviour



- to ensure support of an environment that is conducive to personal and intellectual development and individual safety
- not to be interpreted to preclude peaceful gatherings, peaceful demonstrations or free speech

Prohibited Conduct

Prohibited conduct includes, but is not limited to:

- intentionally or recklessly creating situations which endanger or threaten the health, safety or well-being of another individual
- involvement in disruptive actions (e.g. disorderly conduct, which includes physical or verbal abuse of another person; abusive, indecent, profane or vulgar language; obscene actions; disrespect for the rights and privileges of others; and/or uttering threats)
- harming, injuring or threatening any person on campus or in attendance at University classes, activities or functions
- harassment or discrimination of any person at the University (*please refer to the University Harassment and Discrimination Policy*)

- committing unlawful acts during activities organized or sponsored by the University and the University community
- impeding or disrupting teaching, research, administration, disciplinary proceedings, public service functions and other authorized University functions
- possessing and/or selling illegal drugs or narcotics on campus
- misappropriating, converting, destroying, permanently defacing or otherwise damaging University property, resources or the property of others
- possessing University property or property of other University Community members without proper consent and authorization
- forging, falsifying, misusing or altering any University document or record in paper and electronic form
- obtaining any University equipment, material or service by fraudulent means
- possessing or using intoxicating beverages in areas other than those given specific authorization by the University's Liquor Policy
- possessing or using firearms, knives, fireworks or other dangerous weapons on campus (*please refer to the University policy on firearms and dangerous weapons*)
- entering or remaining in any University building, facility, room or office without proper authority
- allowing others to enter and remain in areas designated for faculty, staff or students without proper authorization
- failing to comply with reasonable directions of University officials or security officers acting in performance of their duties on campus or affecting conduct on campus
- aiding, abetting or acting as an accomplice in the enactment of any of the foregoing activities
- any other conduct which is not in keeping with reasonable University standards
- a written complaint should include, but is not limited to: the name of the student or a description of the student; the specific nature of the infraction, (e.g. exact language used, clear details of behaviour exhibited; the time; date(s) and location of the incident(s))
- except where the complaint should more appropriately be addressed under another specific policy, the complaint will be investigated by the Associate Vice President Student Services or designate
- the investigation will first determine if the complaint has merit and/or can be settled by mutual consent of the parties involved. Whenever possible an appropriate resolution will be sought. If an informal resolution is reached, the resolution will be final and there shall be no further proceedings
- if the complaint cannot be resolved informally or if the Associate Vice President Student Services deems that it is not appropriate for the complaint to be so resolved, an in-depth investigation involving the complainant, respondent (if any) and witnesses will be conducted
- upon completion of the investigation, the Associate Vice President Student Services or designate, will recommend to the President action to be taken and inform all appropriate parties
- discipline may include, but is not limited to:
 - a) written warning to be placed in student's file
 - b) probation
 - c) pay for damages to University property
 - d) fines
 - e) discretionary penalties, work assignment, service to the University
 - f) suspension
 - g) expulsion
 - h) any other action deemed appropriate in the circumstances

Procedures

- In the event that the conduct or behaviour of a student is believed to be of immediate danger to a member of the University community, security is to be called immediately
- any member of the University community may initiate a complaint about a student's misconduct or of a misconduct that has been witnessed such as listed in this code of student conduct policy. Student misconduct or discipline concerns should first be addressed by the Faculty, Chair and Dean
- a complaint of a misconduct by a student shall be made in writing to the Associate Vice President Student Services. Complaints shall be submitted in a timely fashion after the incident
- complaints that overlap with other specific policies and procedures will be addressed under the specific policy and then may be forwarded to the persons responsible for addressing complaints. For example, specific policies governing harassment, liquor, firearms and dangerous weapons, security, and conduct in residence
- any discipline taken by the President may be appealed to the Senate Committee on Academic Appeals
- a written notice of appeal, stating the reasons for the appeal, must be received by the Secretary of Senate within 15 working days of the decision being appealed
- the Secretary of Senate will inform the respondent and the Chair of the notice of appeal in writing and schedule a meeting with the Senate Committee on Academic Appeals

■ Academic Appeals Policy and Procedures

Purpose of Academic Regulations

UNBC is committed to high academic standards as well as assisting students to achieve their educational goals.

These academic regulations have been adopted to provide a structure to guide students and faculty to:

- inform students when their performance is less than satisfactory

REGULATIONS AND POLICIES

- prevent students from continued registration in classes if unsatisfactory performance continues; and
- permit students to resume studies after a specified time, if their academic performance has improved at another institution or the causes of the previous unsatisfactory work have been rectified.

■ Academic Standing

Students are expected to meet the necessary minimum standards for performance while attending UNBC. Those who fail to meet the minimum standard will be placed on academic probation. Normally, these instances are defined as an academic average on nine or more credit hours of UNBC course work that produces a cumulative grade point average (CGPA) of less than 2.00.

■ Academic Offenses

Academic Offenses

Any conduct that violates the ethical or legal standards of the University, particularly those related to academic honesty, is a serious offense. Informal means to resolve complaints of academic dishonesty may be used. A student may seek resolution of a complaint of academic dishonesty at the level of Instructor, Program Chair and/or College Dean. If such 'informal' resolution is unsuccessful or inappropriate, an impartial committee, the Senate Committee on Academic Appeals, will provide for complete examination of the complaint or allegations. The minimum sanction for an academic offense includes reprimands and reduction of grades; the maximum sanction is expulsion from the University (*see Sanctions*). Such offenses include, but are not limited to the following:

- **Plagiarism** When doing research, we move around among other people's ideas. A problem arises when we come to express our own synthesis of these ideas, because "ideas, as well as the expression of those ideas, are considered to belong to the person who first puts them forward. Therefore, when you incorporate in your paper either ideas or phrasing from another writer, whether you quote directly or indirectly, you need to indicate your source accurately and completely." (Slade *et al.* 1994: 55) If you don't, you are guilty of plagiarism. The word actually derives from the Latin *plagiarium*, a kidnapper. (*The American Heritage College Dictionary* 1044) Plagiarism is "the act of using and passing off as one's own the ideas or writings of another." It includes submitting the work of another, using citations which have been designed in order to mislead the reader as to the nature or authenticity of the source. Complete plagiarism involves an entire essay or form of creative work of another, from whatever source (including the World Wide Web) being copied and presented as original work. Unless prior written and signed permission is obtained, submitting the same essay, paper or other term work for credit in more than

one course constitutes a similar situation to complete plagiarism.

Note: Slade, Carole, et al. *Form and Style*. 9th edn. Boston: Houghton Mifflin, 1994.

- **Cheating** Attempting to gain unfair advantage during academic evaluation takes numerous forms and includes, but is not limited to the following: copying from another student's work or allowing another student to copy from your work; obtaining a copy of an examination before it is officially available; use of notes, books, diagrams or other aids during examinations that are not authorized by the examiner; knowingly recording or reporting false empirical or statistical data; and misrepresenting or falsifying references, citations, or sources of information.
- **Submitting False Records** Submitting false medical or criminal records, or other such certificates or information under false pretences.
- **Improperly Obtaining an Examination Paper** through theft, bribery, collusion or otherwise, prior to the date and time for writing such an examination. (*see Cheating*)
- **Misrepresenting One's Own Identity** Impersonation or the imitation of a student in class, in a test or examination or class assignment is a breach of academic honesty. Both the impersonator and the individual impersonated may be charged.
- **Falsification of Results** The falsification of laboratory and research results.
- **Submission of False Information** The submission of false or misrepresented information on any form used by the University or an agent thereof.
- **Submitting Academic Work Twice for Credit** Submitting for credit *any* academic work for which credit has previously been obtained or may be sought in another course or program of study in the University or elsewhere. This includes, for example, materials such as library research papers posted on the World Wide Web.
- **Aiding or Abetting** Aiding or abetting any of the above academic offenses.

Procedure

An instructor who suspects plagiarism or cheating and has evidence, will meet with the student. The student may request that a third party (either another faculty member, a teaching assistant, or a staff member from Student Services) be present at this or any subsequent meetings. If the issue can be resolved at this level, the faculty member will fill in Part A of the UNBC Report Form for Academic Misconduct and forward it to the Registrar's Office to be placed in the student's file. If the matter is not resolved between the student and faculty member, or if it is a serious case (which may involve probation, suspension or expulsion), it will go

to a meeting of the student, faculty member, and the Chair of the program involved. Meetings with the Chair or Dean may be held at the request of either the faculty member or the student, and the Dean may also be brought in at any stage if requested by either party. After these meetings, the Dean will complete Part B of the Report Form for Academic Misconduct. If a penalty is imposed, a copy of the Report Form will be placed in the student's file until the student graduates. All forms, whatever the outcome, will be filed in the Registrar's office. The student may appeal any of these decisions to the Senate Committee on Academic Appeals (*see Appeals Process*).

■ Academic Sanctions

If a student has been found guilty of an academic offense, the student will be subjected to a penalty or penalties appropriate for the offense. Academic offenses will normally be dealt with in the first instance by the instructor. A range of penalties are described below:

Reprimand

This is a written warning to a student from the Program Chair or the Dean of the College that the student's behaviour is considered unacceptable to the University.

Reduction of Grade

A reduction of grade may be applied to an examination, test, or assignment to which an offense is relevant and will be decided upon by the Program Chair or Dean of the College, in consultation with the Instructor. Policies with respect to regrading and review of assignments or exams are under the direction and purview of the Program Chair.

Probation

The Senate Committee on Academic Appeals will determine the length of the probationary period.

Suspension

A student may be prohibited from taking a particular course, or from taking any courses in a specified Program or College. The Senate Committee on Academic Appeals will set the period of suspension that will apply. The period of suspension shall not exceed six consecutive semesters.

Expulsion

The President may expel a student from the University. Prior to the President's decision becoming final, the student will be informed in writing of the recommendation. The student will be given 15 working days following such notification to lodge an appeal before the President's final decision becomes effective. Any such appeal must be made in writing to the Secretary of Senate (University Registrar) and will be reviewed by the Senate Committee on Academic Appeals (SCAA).

Sanctions

Registration at the University of Northern British Columbia and the right to access the library, specialized equipment or all other academic facilities implies a commitment on the part of a student to use such facilities in accordance with established rules. A student not fulfilling these obligations will have academic sanctions imposed upon him/her.

In instances of non-payment of any portion of tuition, prescribed fees or University library fines and/or bills, or of delinquency in the return or replacement of University property on loan, or non-repayment of cash advances or loans, or of violation of residence regulations, the University shall not permit a student to register for further courses, shall not issue a grade statement and shall not issue a transcript or degree parchment.

Moreover, the above prohibitions shall be in force until such time as indebtedness to the University has been cleared to the satisfaction of the University.

■ Appeals Process

All students have the natural and reasonable right to appeal grades given during the term, the final grade of a course and other academic policies and decisions of the University. The Senate Committee on Academic Appeals (SCAA) adjudicates such matters. In turn, these decisions, along with appropriate policy and procedural recommendations, are made to Senate.

All formal appeals should be made in writing with necessary documentation within 15 working days of the receipt of the decision in question. *In this regard, it is incumbent upon the student to advise the University, via the Office of the Registrar, of their current mailing address.*

An Appeals Form outlining the necessary steps to be followed is available from the Office of the Registrar. With the exception of an appeal being resolved between the student and the Instructor, this form must be used for all appeals whether they eventually reach the Senate Committee on Academic Appeals (SCAA) or are resolved within the Program/College in question.

All written appeals to the Senate Committee on Academic Appeals (SCAA) should indicate whether an in-person hearing is being requested. Otherwise, cases are adjudicated on the basis of a detailed written submission. Students should be aware that in the case of an academic appeal the course Instructor normally will be contacted, where available. Natural justice applies to both student and faculty alike. All forms of adjudication are held in the strictest confidence and are normally attended by members of the Committee and the parties to the particular appeal. Upon written notification to the Senate Committee on Academic Appeals (SCAA), appellants may seek third-party representation to attend in support of their appeal, although their participation is normally limited to providing moral support only. In extraordinary cases, the appellant or other

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parties may wish to retain legal counsel. Any person(s) retaining legal counsel for purposes of representation are obliged to inform the Senate Committee on Academic Appeals SCAA in writing 15 working days prior to the scheduled meeting.

The Committee Chair (or their designate) and/or the Secretary to the Committee will review each request to hear an appeal before any hearing or adjudication. This review is intended to ensure that the nature of the appeal is consistent with University policy and procedures. This review ensures that the appeal is both valid and cannot be resolved by other means. In some instances this review may lead to a reversal of the decision before review, while in other instances the review may indicate there are insufficient grounds for an appeal, or that further documentation is required.

Senate Committee on Academic Appeals: Procedures

- SCAA will follow principles of natural justice and fairness. As an internal administrative committee, it is free to develop procedures and practices to conduct appeals and is not constrained by strict rules of procedure and evidence
- a quorum shall consist of a majority of voting members, including at least one student member and two faculty members
- no faculty or student committee member with previous involvement in the case may hear the appeal
- all cases will be adjudicated upon the basis of a written submission, unless an in-person hearing is requested by the appellant
- the appellant has the right to challenge the neutrality of any member of the Committee scheduled to hear his/her appeal. The Chair, with the advice of the Committee, will rule on the validity of the challenge
- if the appellant requests an in-person hearing, the respondent (e.g., the course Instructor) will be notified and may also appear at the appeal, where available. Where the appeal concerns new evidence that was not considered with the initial decision, the respondent shall be entitled to speak to the new evidence after having documented it in advance. Thus, new evidence cannot be presented at the hearing.
- appeals shall be based on the appellant's written submission (all relevant evidence and documentation related to the matter which is under appeal, and all relevant information contained in the student record)
- both parties may be accompanied by a representative at the appeal; the Committee must be informed, in writing, of such counsel 15 working days prior to the hearing
- if the appellant requests to be present at the hearing yet fails to appear before the Committee on the appointed day and time, the Committee may, without further notice, proceed to determine the appeal
- if there are compassionate or medical grounds for non-appearance, the Chair or the Secretary to the Committee must be notified immediately. The Chair will determine the acceptability of these grounds and whether the appeal should be tabled.

Appeal of Final Grade

Students who have reason to believe their final grade in a course is inaccurate should meet with their course instructor immediately, where available.

The guidelines specified below are to give students an estimate of the time it should take to go through the steps of an appeal. These guidelines may vary with each specific appeal.

Students who wish to appeal their grade:

- should pick up an Appeals Form from the Office of the Registrar
- the instructor (where available) must review the assigned grade with the student after the final grade has been released by the Office of the Registrar
- the student will be able to have supervised access to their final examination
- if not resolved within 15 working days, proceed to the next step on the Appeals Form: go to the Program Chair
- if not resolved within seven working days, proceed to the next step: go to the Dean's office
- if not resolved within seven working days, go to the next step: submit form to SCAA

An appeal may result in a higher, equal or lower grade.

The final recourse for all appeals is the Senate Committee on Academic Appeals.

Appeal of Term Grades While Course is in Progress

Students who have reason to believe their term grade while a course is in progress is inaccurate should meet with their course instructor immediately.

The guidelines specified below are to give students an estimate of the time it should take to go through the steps of an appeal. These guidelines may vary with each specific appeal.

Students who wish to appeal their term grade:

- should meet with the Instructor immediately after returned work to review the assigned grade
- if no resolution is reached within seven working days, then proceed to the next step: pick up an Appeals Form from the Office of the Registrar and forward it to the Program Chair
- if no resolution is reached within seven working days, then proceed to the next step: go to the Dean's office
- if not resolved within seven days, proceed to the next step: submit form to SCAA

An appeal may result in a higher, equal or lower grade.

The final recourse for all appeals is the Senate Committee on Academic Appeals.

■ Advanced Standing

In cases in which course challenge is not possible or transfer credit was unable to be granted, the Dean or Program Chair, upon review of the student's background, may grant the student permission to undertake advanced course work without the normal prerequisites. Such advanced standing will not reduce the number of credits that the student must accumulate to obtain a UNBC degree.

■ BC Freedom of Information and Protection of Privacy Act

The University of Northern British Columbia gathers and maintains information used for the purposes of admission, registration and other fundamental activities related to being a member of the UNBC community and attending a public post-secondary institution in the Province of British Columbia. In signing an application for admission, all applicants are advised that both the information they provide and any other information placed into the student record will be protected and used in compliance with the *BC Freedom of Information and Protection of Privacy Act* (1992).

■ Class Attendance

Students are expected to attend classes on a regular basis. Instructors may establish attendance requirements for each class. These expectations must be defined in the course syllabus.

■ Conditions of Academic Standing

Academic Probation

The following circumstances can lead to Academic Probation:

- certain admission categories enable students to be admitted on academic probation (either an unproven or unsuccessful previous university record)
- a cumulative GPA of less than 2.00 after nine credits of course work while at UNBC will result in academic probation
- probationary status may be imposed as a sanction following determination of academic dishonesty
- a cumulative grade point average (CGPA) of less than 2.0

Letters of permission will not be given to students on academic probation.

Students are considered to be in good academic standing once their CGPA is 2.0 or greater.

Students who have been placed on Academic Probation who achieve a Semester GPA (SGPA) of 2.0 or greater in subsequent semesters will be allowed to continue their studies at UNBC while on Academic Probation. Students will return to good academic standing when their Cumulative GPA (CGPA) reaches 2.0 or greater.

Students who receive a CGPA or a SGPA of less than 2.0 after the completion of 18 credits while on Academic Probation are required to withdraw from the University for three semesters (one academic year).

Required to Withdraw

Three circumstances will generally result in withdrawal from UNBC. These are:

- you will be required to withdraw from the University if you fail to provide necessary documentation for admission or fail to pay for tuition or university services
- students who receive a CGPA or an SGPA of less than 2.0 after the completion of 18 credits while on Academic Probation are required to withdraw from the University for three semesters (one academic year).
- the President of the University has the authority to suspend or expel a student at any time for reasons of unsatisfactory conduct, unsatisfactory academic performance, and other reasons which clearly indicate that withdrawal from UNBC is in the interest of the University. The action of the President is in all cases subject to an appeal to the Senate (Section 58 of the *University Act of BC*)

Permanent Withdrawal

If you have been required to withdraw from the University on more than one occasion, your application for re-admission normally will not be accepted.

Ineligible to Register

You will be unable to register for courses if you have been requested to withdraw from UNBC. See the guidelines under *Required to withdraw*.

Re-admission to UNBC

Students who have been required to withdraw from UNBC must wait for three semesters before being eligible to re-apply for admission to the University.

In order to apply for re-admission to the University, students must submit an Application for Admission / Re-admission to the Office of the Registrar (forms can be picked up from the Office of the Registrar).

Students must provide a letter to the Registrar stating their rationale for wishing to return to studies at UNBC and outlining any work completed or experience gained which would better qualify them to successfully complete work at UNBC. Students who are permitted to return to studies at UNBC, return on academic probation, must successfully complete a GPA enhancement program with the Learning Skills Centre, and are subject to the University's policy on academic standing and continuance found in the current calendar.

Please note: re-admission to the University does not mean that a student will be accepted into a specific program.

Continuing/Returning Students

A continuing student is one who has registered in one of the last three semesters (e.g. Fall, Winter, Spring/Summer). Unless such a student has been required to withdraw, or is suspended or expelled, he/she can return to the University without re-applying.

A returning student is one who has not registered in any of the last three semesters. The student must re-apply to the University and, if re-admitted, will be governed by the general and program regulations in effect at the time of re-admission.

Course Challenge

Students may challenge a course by writing an examination during an examination period or at a time designated by the faculty member. To be eligible for course challenge a student must be currently registered at UNBC, or be eligible for registration at UNBC.

Each Dean and Program Chair will decide which courses are eligible for challenge exams.

Students who have earned credit for the course at UNBC or another institution or have been awarded transfer credit at UNBC, or who have audited the course at UNBC or another institution, or are currently registered in the course at UNBC, are not eligible to challenge the course.

Students may not challenge a prerequisite course after successfully completing the advanced course.

Students may not challenge a course which they have previously failed.

Grades for course challenges are recorded on the transcript and the grade is included in the calculation of the grade point average.

Application for Course Challenge forms are available at the Office of the Registrar. Students must submit the completed and approved form and payment for the course challenge to the Registrar's Office no later than the last day of classes in the applicable semester. The fee for course challenge is one-half the regular tuition fee for the course and is non-refundable.

Arrangements for a challenge examination can be cancelled up until the last day of classes in the applicable semester, although the fee is nonrefundable. In such cases students will receive a W on their transcript. A student who pays for a challenge exam and does not cancel the arrangement by the deadline or does not write the exam will receive a grade of F.

Criminal Records Searches

Given the scope of the Criminal Records Review Act, UNBC requires criminal records searches for applicants to program areas that involve working with children or other vulnerable persons. The cost of this search is the responsibility of the student. This requirement may result in a student having to undergo two criminal record searches; one through the RCMP (for those programs requiring it) and one through the Attorney General's Office.

Students must provide proof of application for a Criminal Records Search in order to be considered admissible to the program. The result of a Criminal Records Search which identifies relevant criminal convictions may prevent a student from entering into a practicum or clinical component of the program and will result in the student not being able to fulfill the graduation requirements for a program. Criminal Records Search forms are available in the Registrar's Office.

Criminal Records Searches are required for the following programs:

Community Health Science (MSc)
Educational Counselling (MEd)
Northern Collaborative Baccalaureate Nursing Program (BSN)
Social Work Programs (BSW, MSW)

■ Declaring a Program

All undergraduate students are required to declare a program of study by the end of the semester in which they will complete 30 credit hours of academic work. A student who transfers into the University with 30 or more credit hours of academic work must declare a program in the first semester in which he/she registers.

Students must contact an academic advisor to declare or to change a program of study. Declaration of Major forms are available from the Office of the Registrar.

■ Double Majors

Graduation with a double major from the College of Arts, Social and Health Sciences requires completion of the requirements of each major. Any courses that are included in the requirements for both majors may be counted for both.

■ English Language Requirements

English is the primary language of instruction and communication at UNBC. Consequently, it is expected that an applicant should be able to demonstrate an acceptable level of proficiency in the use of English to receive and participate in classroom instruction and discussion as well as complete written assignments.

Applicants whose first language is not English, regardless of citizenship or country of origin, must submit evidence of English language proficiency prior to admission.

Acceptable evidence of English language proficiency may be any one of the following:

- TOEFL (Test of English as a Foreign Language) score of at least 570 in paper-based test and at least 230 in computer-based test. UNBC's institutional TOEFL code is 0320.
- IELTS (International English Language Testing System) score of at least 6.5 in the Academic Reading and Writing Module.
- LPI (Language Proficiency Index) score of at least 5.
- A grade of 75 percent (B) or better in English 12 from the British Columbia secondary system.

In order to be considered valid, these scores must be sent directly from the testing agency/institution to the Office of the Registrar.

■ Examinations

Normally all courses except thesis and practicum courses shall have final examinations worth at least 25% (twenty-five percent) of the total course marks.

Students are required to write no more than two final exams in any one day. Final exams are no longer than three hours in duration. Exceptions must be approved by the Program Chair.

When a course has a final examination, it must be given during the scheduled examination period. Tests worth more than 10% of the final grade must not be given in the final week of classes. Major papers or projects must not be assigned in the last two weeks of classes. Courses with laboratory, clinical, or practica-based final examinations may schedule such assessments or examinations during the final week of classes. Deans may make exceptions to this policy in extraordinary cases. Such exceptions must be made at the beginning of the semester and have the approval of the Program Chair.

Conduct in Final Examinations

Students must present appropriate identification upon entering the examination room. Appropriate identification is defined as a UNBC student card and/or some form of photo identification.

Students may be refused entry to a final exam, or expelled from a final exam for violating any of the following regulations:

- books, papers, or other materials or devices must not be in possession of the student during an exam unless the examiner has given written permission
- no candidate is permitted to enter the examination room more than 30 minutes after the beginning of the examination, or allowed to leave within 30 minutes after the examination has started
- no candidate is permitted to leave the examination room in the final 30 minutes of the scheduled exam
- candidates must not communicate in any way with other candidates in the examination room
- candidates must not leave their seats, except when granted permission by the supervisor, invigilator, or to turn in their answer books
- food and beverages are not permitted in the examination room.

Student Access to Final Examinations

The instructor will, on request by a student, informally review the final examination with the student but not before the semester grade has been released.

REGULATIONS AND POLICIES

Final examinations will be kept by the University for a period of one full year after the examination period, after which time they may be shredded or destroyed by other acceptable means.

Religious Holidays/Examination Schedule

In some instances, a student may, for religious reasons, find themselves unable to write a final examination on a religious holiday or holy day. If the final examination cannot be rescheduled to avoid the conflict, the student concerned shall be evaluated by other means, which may include another examination scheduled at a different time. Students must complete the appropriate form and notify their instructors of a conflict at least two weeks prior to the examination period.

Deferred Examinations and Grades

Students may apply for a deferred examination or a deferred status to complete required term work if medical or compassionate reasons prevent attendance at an examination or completion of assignments. Written application for a deferment, along with supporting documentation and written approval from the instructor and Program Chair, should be received by the Office of the Registrar no later than three working days after the scheduled exam was held. Forms for deferred status are available from the Office of the Registrar.

If a student is granted a deferment, the exam must be written or the assignment(s) completed and graded before the last day of classes in the next semester, unless prior arrangements have been made with the instructor and notification has been submitted to the Office of the Registrar. If a student is granted a deferment but does not complete the required work, or does not appear for the examination, a grade of F will be given.

If a student's request for deferred status is refused, the instructor will be required to submit a final grade.

Full-Time Studies

A student who registers in and attempts 12 or more credit hours per semester is considered a full-time UNBC student. For BC Student Assistance program purposes, a full-time student is one who is registered in nine credit hours or more.

Grading

Each credit course for which you are registered is awarded a final grade at the end of the semester. The grade for each course will be entered on your transcript by a letter grade and a grade point as follows:

Grading System			
UNBC Grade Point	Letter Grade	Percentage	Definition/ Standing
4.33	A+	90 -100%	Excellent
4.00	A	85-89.9%	
3.67	A-	80-84.9%	
3.33	B+	77-79.9%	Good
3.00	B	73-76.9%	
2.67	B-	70-72.9%	
2.33	C+	67-69.9%	Satisfactory
2.00	C	63-66.9%	
1.67	C-	60-62.9%	Marginal
1.00	D	50-59.9%	
0.00	F	0 -49.9%	Failure

The following are not included in academic average:

P	Passing grade	credit awarded
AEG	Aegrotat standing	credit awarded
DEF	Deferred grade	no credit awarded
W	Withdrawn	no credit awarded
AUD	Audit of course	no credit awarded
WAU	Withdrawn from audit	no credit awarded
INP	Thesis or project course work in progress	
NGR	No grade reported	

Candidates for baccalaureate degrees who have completed at least 30 credit hours of graded course work at UNBC will graduate:

With Distinction	≥ 4.00
First Class Honours	≥ 3.67 to < 4.00
Upper Second Class	≥ 3.50 to < 3.67
Second Class Honours	≥ 3.00 to < 3.50

Grade Point Average

Grade Point Average (GPA) is a method of expressing the student's performance as a numerical value. Each letter grade is assigned a numerical equivalent, which is then multiplied by the credit hour value assigned to the course to produce the grade point. The GPA includes UNBC courses only except as noted below under graduation grade point average.

Semester Grade Point Average

Semester Grade Point Average (SGPA) is computed by dividing the total number of grade points earned by the total number of credit hours taken in the semester. See *Repeating Courses* for the treatment of repeated courses in GPA calculations.

Cumulative Grade Point Average

Cumulative Grade Point Average (CGPA) expresses performance as a numerical average for all courses for all semesters completed. The CGPA is calculated by dividing the total number of grade points earned to date by the total number of credit hours undertaken to date. (Letter grades of P or W are not assigned a numerical value and are not used in calculating the grade point average.) See *Repeating Courses* for the treatment of repeated courses in GPA calculations.

Graduation Grade Point Average

Graduation Grade Point Average (GGPA): In order to graduate a student must have a minimum CGPA average of 2.0. The GPA only includes UNBC courses (or those attempted through a recognized UNBC exchange or collaborative program).

Lower Division Evaluation

All 100 and 200 level course work is known as “lower division” and usually totals 60 credit hours.

Upper Division Evaluation

Course work done at the 300, 400 and 600 level is considered upper division.

Graduation

Eligible students must apply to graduate. Application for graduation must be received by the Office of the Registrar no later than March 1.*

Students who have any outstanding obligation to the University will not be permitted to graduate. Outstanding obligations include, but are not limited to, the following:

- tuition fees owing
- library or other fines
- outstanding library loans
- outstanding equipment or other loans

*There will be a \$35.00 non-refundable application fee per credential charged to your student account when the application form is processed.

Harassment and the Misuse of Authority

The University of Northern British Columbia is committed to providing a working and learning environment in which all students, staff and faculty are treated with respect and dignity. The University of Northern British Columbia acknowledges the right of all individuals in the University Community to work or learn without discrimination or harassment because of race, colour, ancestry, place of origin, religion, family status, marital status, physical disability, mental disability, sex, age, sexual orientation, political beliefs or criminal or summary conviction offense unrelated to their employment. An approved policy applies to all members of the UNBC community and is administered by the Harassment and Discrimination Advisor.

International Exchange

UNBC students who have been accepted for an international exchange must have either >2.67 cumulative GPA, or >3.0 GPA in the previous two semesters on at least 18 credit hours.

Joint Majors

Joint majors in the College of Arts, Social and Health Sciences require students to take 81 to 90 credit hours of courses in two areas of study as defined by the programs delivering the majors.

Letters of Permission

A Letter of Permission ensures that courses successfully completed at another institution can be transferred to the student’s program at UNBC. Before taking courses from other post-secondary institutions for credit on a Letter of Permission towards a UNBC credential, a student must:

- have completed nine semester credit hours of study at UNBC
- have declared a program of study at UNBC
- not be on academic probation or owing fees

Calculation of Grade Point Average

The following is an example of how a student’s GPA is calculated at the end of a semester:

1.	ENGL 301-3	B	3.0	3 credit hours x 3.0	=	9.00
2.	ENGL 302-3	B-	2.67	3 credit hours x 2.67	=	8.01
3.	BIOL 301-4	C+	2.33	4 credit hours x 2.33	=	9.32
4.	HIST 302-3	A+	4.33	3 credit hours x 4.33	=	12.99
5.	PYSC 301-3	W	—			—
			Total	13 credit hours		39.32
			Semester GPA: 39.32/13 = 3.02			

REGULATIONS AND POLICIES

Students who complete courses without having first obtained a Letter of Permission will not automatically receive credit for the course.

Students are reminded that a minimum of 30 credit hours of upper division level UNBC course work is required to graduate with a UNBC degree.

Course work taken on a Letter of Permission is considered to be transfer credit, and therefore subject to all policies and practices related to transfer credit.

■ Minors

UNBC offers minors in a number of subject areas as indicated in the Calendar. A minor requires a minimum of 18 credit hours, at least 12 of which must be upper division credits. In most cases, the upper limit for a minor is 27 credit hours, at least 12 of which must be upper division course work. Normally, a maximum of two courses (six credit hours) used to fulfill requirements for a major (or another minor) may also be used to fulfill requirements for a minor. Normally, fifty percent of courses in the minor must be taken at the University of Northern British Columbia.

■ Part-Time Studies

Any student who registers in and attempts less than 12 credit hours per semester is considered a part-time UNBC student. Students applying to UNBC to study part time are subject to the regular admission requirements.

■ Repeating Courses

Students are normally allowed to repeat a course only once. This repetition does not add any hours of credit to the program. Both grades are recorded on the transcript, but only the most recent grade will be calculated into the GPA.

In cases where the repeated course is a required course for a specific degree, two failed attempts may result in the student being required to withdraw from that degree.

■ Residency Requirements

Students must complete a minimum of 30 credit hours of upper division UNBC course work to receive a UNBC degree.

■ Student Misconduct

Students are expected to behave responsibly and to abide by the policies and regulations of the University of Northern British Columbia. Disruption of instructional activities, if serious, may be reported by the instructor to the Program Chair and subsequently to the Dean of the College in which the disruption occurred. The President has the power to deal in matters of student discipline and has the power under the *University Act of British Columbia* to suspend or expel a student.

Any offenses committed under the Criminal Code of Canada and other laws of the Province of British Columbia and Canada, including, but not limited to damage to property or unlawful harm to others shall be dealt with through the courts of law.

■ Time Limit for Transfer Credit

Transfer credit may not be awarded for courses taken in excess of 10 academic years ago. Students who wish to have this credit recognized should apply in writing through the Office of the Registrar to the appropriate Program Chair(s). Programs may specify a shorter time period at their discretion.

■ Time to Complete an Undergraduate Degree

Students admitted to UNBC are normally expected to complete their undergraduate degree program within 15 years of their first semester of registration.

■ Transcripts

An official transcript is a document sent directly to a receiving institution from the issuing institution. The Office of the Registrar will transmit official transcripts directly to other institutions only at your written request. If you have an outstanding financial obligation to the University or have not cleared provisional admission status, final grades and transcripts will not be released to you or on your behalf.

■ University Closure/Weather

On rare occasions, the President (or designate) may be required to close the University due to inclement weather or other human or natural circumstance. In such circumstances, classes and examinations will be formally cancelled and will be rescheduled. Assignments due on the date of the closure must be submitted on the next day that the University is open.

Services and Facilities

■ Introduction

UNBC is a student-centred university committed to providing you with high quality services. On the Prince George campus, student service operations (Office of the Registrar, Student Success Centres, Co-operative Education, International Centre, Academic Advising Centre and First Nations Programs) are located on BC Tel Student Services Street, a high profile area in the Agora. Most university services are available to students at a distance through our Regional Offices. Many on-site services are provided through co-operative arrangements with the three northern colleges. In this way, as a UNBC student, you are provided with the convenience of one-stop shopping for a variety of student services.

UNBC provides a wide variety of services to support the intellectual, personal, physical, cultural, spiritual and professional development of students at the University. You'll find a welcoming, supportive environment, based on mutual respect and a shared commitment to the ideals of the University of Northern British Columbia.

■ Administrative Computing Services

The Administrative Computing Services department at UNBC is responsible for implementing, supporting and maintaining all administrative systems. These include systems for Finance, Human Resources, Purchasing, Payroll, Registration, Admissions, Records, Recruitment, Facilities, Housing and Conference Services, One Card, Bookstore, Development, Co-operative Education and Financial Aid. Administrative Computing Services provides support and maintenance for desktop machines in various administrative areas.

■ Alumni Association

The UNBC Alumni Association is composed of graduates of the University of Northern British Columbia. All UNBC graduates automatically become members of the Association upon their graduation.

The Alumni Association not only serves to promote and coordinate the efforts of its members on a social basis, but also acts as a liaison between the graduates and the University.

■ Bookstore

The Bookstore provides service to students on the Prince George campus and throughout the region through Regional Offices and local college bookstores. Book prices are the same regardless of which source they are purchased from.



The Prince George campus service consists of two retail outlets: the Bookstore and the Cornerstore. The Bookstore stocks all required and recommended texts needed for courses as well as reference books and books of general interest. Academic priced computer software is available to students, staff and faculty of UNBC. In addition, the Bookstore carries UNBC crested clothing, backpacks and giftware, and school and office products. The Cornerstore stocks snacks, candy, newspapers, magazines, a selection of UNBC crested items, plus many "convenience store" items.

■ Centres

BC Centre of Excellence for Women's Health

The Northern Secretariat, located at UNBC, is the northern branch of the BC Centre of Excellence for Women's Health. The Centre of Excellence is a research centre created by feminist researchers, health care providers, community groups and policy makers dedicated to improving women's health. The mandate is to facilitate research on the social

SERVICES AND FACILITIES

determinants of health for marginalized women. Therefore, the focus is on research and policy development which will improve the health of women who face disadvantages due to socio-economic status, race, culture, age, sexual orientation, geography, disability and/or addiction.

Child Welfare Research Centre

Major activities of the Child Welfare Research Centre include conducting and promoting practice-relevant research which links academic and community interests; enhancing critical awareness and analysis of northern child and family welfare issues by sponsoring information sessions, public education seminars, and Summer Institutes in cross-listed Social Work courses; publishing a Working Paper Series; and maintaining a clearing house of “difficult-to-find” research material. Staff, project researchers, and members of the management and advisory committees together comprise a cross-disciplinary mix of academics and practitioners from First Nations organizations, child welfare services, community corrections and substance abuse treatment; representing the fields of nursing, social work, history, psychology, and education. The clearing house is located in Room 2012 of the Administration Building, or call 960-5714 for more information.

Childcare Society

UNBC Childcare Society provides care for children ages 18 months to five years, serving students, faculty, staff and community users. The childcare complex houses three centres: Porcupine Pals (three to five daycare centre), Cub’s Corner (toddler daycare centre), and Raven’s Nest (preschool and part-time daycare). Daycare manager Anne-Marie Prediger can be contacted at (250) 960-5720.

Communications

The Office of Communications is concerned with various aspects of public affairs. This involves work such as media relations, various major and minor publications, broadcast materials, promotional world wide web pages, internal and external newsletters, photography, VIP and other visits, special events, support to the marketing and development programs, visual identity, community relations, speaker panels, issues management, and alumni relations.

Computing and Telecommunications Services

The role of Computing and Telecommunications Services (CTS) at UNBC is to provide support to faculty, students and staff in areas of computing as it applies to teaching and research. CTS maintains microcomputer (PC and Mac) labs for student use. These labs are used both for classroom teaching as well as for drop-in usage by students. CTS maintains and administers the campus fibre optic backbone

network and provides network services such as e-mail, world wide web and internet access. Every student is provided with a computer account. CTS is also responsible for campus phones as part of telecommunications services. CTS looks after the computing needs of regional students as well. Please direct your inquiries to Help Desk located in Room 5-123, phone 960-5680.

Conference and Events Services

Conference and Events Services offers one-stop shopping for all your conference needs—all it takes is one phone call. Whether you are planning a conference, a seminar, a reception or a meeting, our experienced staff will work with you to create a unique package which will not only meet your needs but surpass your expectations.

The services and facilities available at UNBC for conferences and events will impress you the first time, bring you back the second time and keep you coming back after that. The following is a brief list of some of the features which will ensure the success of your event:

- modern meeting space for up to 350 persons
- extensive catering and meal services
- first-rate printing and publication services
- convenient parking and transportation services
- on-campus summer accommodation
- breath-taking natural surroundings

Co-op Education Office

UNBC’s Co-operative Education office is dedicated to helping students find term employment related to their studies. The office offers year-round assistance to Co-op students accepted into the program, including the following services:

- career and job placement counselling
- labour market information
- job search assistance
- business profiles
- assistance with résumés, cover letters and interviews
- access to job search reference library
- access to Co-op facilities and equipment (faxing, mailing, interview rooms, etc.) as part of the job placement process
- job placement assistance
- Co-op course registration assistance
- work site visits
- work term evaluations by employers and Co-op staff
- work term report evaluations
- post employment debriefing

■ Copy Services

Copy Services is located in the Agora between Food Services and the Bookstore. High volume copying, colour photocopying or document binding services are available to all students.

Coin and Debit Card Photocopiers are conveniently located in Northwood Winter Garden, Main Floor of the Library, Upper Floor of the Library, and Outside Copy Services.

Note: For transparencies/overheads services, only use copiers located in the library or the copier outside Copy Services.

Contact Copy Services at local 6464 if any copiers require servicing.

■ Development Office

The Office of University Development is responsible for developing and maintaining long-term partnerships with corporations, small businesses, associations, foundations, individuals and government agencies. The Office of University Development ensures the University's priority funding needs are met through various fund raising initiatives. The office oversees the annual giving, major gifts and planned giving programs, and plans and co-ordinates special events to recognize the University's donors, including the annual Student Awards Ceremony.

The generosity of UNBC's donors allows the University to enhance its programs and provide top quality and accessible education for its students.

■ Educational Media Services

Educational Media Services (EMS) is located on the third floor of the library building. EMS provides faculty, students and staff with operational and technical assistance, repair services, video and audio equipment/services, and slide or full-page scanning stations.

EMS provides multimedia services on both Macintosh and PC platforms. They have the capability to capture and edit video and audio on PC platforms and can provide digital printing services on 35mm film, or full colour on 8.5 x 11 paper and transparencies.

For more information or a complete list of equipment available for sign-out or services, please feel free to drop by, or check out their web page at www.unbc.ca/ems

■ Facilities and Security

Facilities is responsible for all aspects of operation and maintenance of buildings, grounds, and mechanical equipment. This includes waste removal, snow removal, landscaping, and janitorial services.

Additional responsibilities include purchasing, central stores, mail room, copy services, risk management, health and safety, room booking, parking, and rental vehicles.

Facilities is also responsible for safety and security on campus. The BC Corps of Commissionaires provides a highly visible 24 hour security service which includes escorting students, staff and faculty to and from the parking lots and residences.

■ Finance Office

The Finance Office is responsible for all administrative activities of a financial nature at UNBC. Those responsibilities with a direct impact on student life include student fee assessment and collection, administration of the campus One Card system, disbursement of all cheques including scholarship and bursary cheques, payroll for teaching assistantships and all student jobs, and administration of research grants and fellowship income for all faculty and students.

One Card System — Debit Plan

The campus One Card system enables students to place a deposit of money on their student identification card. This card may then be used to make purchases at the Bookstore, buy food in the cafeteria, purchase items from the campus vending machines and to use designated photocopiers. Students living on campus also use this card to access the residence building and can use the card in the laundry facilities.

Purchases are debited from the student's One Card account immediately upon purchase. The card can be used until the balance reaches zero. Deposits on the card may be made at the Cashier's office, located in the registration area, any time during regular working hours. Students may also request, at any time, a refund of any balance remaining on the card. These requests should be made at the Cashier's office during regular business hours. Please allow two to three weeks for a refund cheque.

One Card System — Meal Plan

The campus One Card also enables a student to participate in the campus meal plan. Meal plan purchases of \$800.00 or greater per semester are exempt from GST. On average, a student contemplating purchasing a meal plan will get approximately 10 meals per week with a semester deposit of \$800.00, approximately 15 meals per week with a \$1,200.00 deposit and 20 meals per week with a \$1,600.00 deposit.

Refunds may be requested from a meal plan at any time from the Cashier's office. Please be advised that UNBC has a statutory requirement to collect the GST for meals purchased on a meal plan if, as a result of a refund request, the meal plan amount falls below the \$800.00 per semester limit for exemption. Please allow two to three weeks for a refund cheque.

■ First Nations Opportunities

UNBC is located in the territories of 16 Tribal Councils and over 78 bands, and is proud to work in partnership with these groups. The University offers a rich program of courses, degree programs, opportunities for research and community service with First Nations throughout the north, drawing scholars from around the world to learn with us. There will be a variety of opportunities available to those who wish to learn from and about the First Nations of the north, including the First Nations Studies program courses in languages, cultures, and contemporary issues, internships with First Nations organizations, and community-based research projects. UNBC has established partnerships with several First Nations where these opportunities are available, and is developing exchange relationships with other Canadian institutions that offer First Nations programs as well as with international universities with opportunities in the area of world indigenous peoples. Programs are available at both the undergraduate and graduate levels.

The Office of First Nations Centre specializes in services to First Nations students. This office provides a culturally supportive environment where leadership, spiritual growth and academic excellence are fostered. There is a designated First Nations meeting centre on campus that is available for gatherings, events and activities that are related to the interests of First Nations students. The array of services include: an aboriginal student association, visiting Elders, personal counselling, admissions advocacy, and a lively program of speakers and cultural activities.

■ Food Services

The University has three food outlets: the Food Court, the Northwood Winter Garden Deli, and the Starbucks Kiosk.

The Food Court features a wide range of food for all tastes: hot entrées, salads, sandwiches, pizza and pastas, burgers, pastries and doughnuts, plus coffee, tea, cappuccinos, lattés, pops and juices.

The Northwood Winter Garden Deli, a licensed facility, features sandwiches, pizza, subs, nachos, hot dogs, cappuccino, Belgian waffles, chili, pop and juice.

The Starbucks Kiosk offers a variety of specialty coffee, biscotti, cheesecake, and specialty desserts.

Both on- and off-campus students can purchase meal and debit plans, accepted at both the Food Court and the Deli.

The catering service offers a range of services including breakfast, lunches, dinners, and receptions.

Food service at UNBC is provided by Beaver Foods, a CARA Company.

Vending Services

Snack and pop vending machines are located throughout campus. Some machines are equipped to accept the University's One Card.

■ Human Resources Department

The University of Northern British Columbia attempts to provide a range of on-campus employment opportunities for students both during the regular academic year and in the summer months. The Human Resources Department is not directly involved in student employment, however, a job board is maintained in the department with some employment notices. Students should contact the Student Services department, department managers (e.g., Bookstore, Library, Fitness Centre) and/or professors about employment opportunities. International students should contact the Office of International programs for information on working visa requirements.

■ Institutes

Institute for Social Research and Evaluation

The Institute for Social Research and Evaluation (ISRE) is a research institute located at the University of Northern British Columbia but operating in partnership with a number of local government and non-government agencies including the City of Prince George, Northern Interior Regional Health Board, Human Resources Development Canada, Regional District of Fraser Fort George, Prince George United Way and the Canadian Red Cross. ISRE undertakes broad-based public opinion polling (with in-person or telephone interviews or mailout surveys), special targeted surveys (e.g., related to health, employment, crime, family issues, etc.), focus groups, and the evaluation of public and private programs.

Northern Land Use Institute

The Northern Land Use Institute was created to improve land use, resource, and environmental decision-making in northern communities. Supported by an endowment fund begun by the BC Real Estate Foundation, the Institute promotes collaborative, inter-disciplinary research in partnership with northern communities, First Nations, public agencies, and the private sector. It also supports co-operative education placements and internships, short courses, workshops, and a lecture series.

■ Institutional Analysis and Planning

Institutional Analysis and Planning is housed in the Office of the President. The staff works with senior administration on matters regarding external statistical analysis and reporting, enrolment analysis and projection, market analysis, and planning and accountability.

■ Northern British Columbia Graduate Students' Society

The Northern British Columbia Graduate Students' Society (NBCGSS) exists to serve the interests of the graduate student population of UNBC. Staffed by volunteers, we represent the concerns of graduate students in a number of ways. NBCGSS representatives facilitate communication between graduate students and the administration and faculty, monitor changes in university policy that affects graduate students, act as advocates for those with university-centred problems, distribute graduate-relevant information, and provide basic amenities to our on-campus members, such as graduate-only computer labs and a lounge area for socializing. We also organize social and sporting events both on and off campus. For more information on the NBCGSS and its activities and resources, please call us at (250) 960-5671, e-mail us at nbcgss@vaughan.fac.unbc.ca or consult our website at <http://vaughan.fac.unbc.ca/grads/>

■ Northern Undergraduate Student Society

The Northern Undergraduate Student Society (NUGSS) facilitates an awareness of the rights and views of each member of the Society, and represents the concerns from their areas of study. Students are encouraged to see the Ombudsperson from the Society with any complaints or concerns they may have; he or she will act as an advocate to the University on behalf of the students. Promoting equality is important and NUGSS acts as a service for the Society members between Administration, Faculty, and Staff of the University, and the Prince George community. The Student Society would like to see students participate, by either becoming a committee member, a volunteer, or running for a position on the board. Participation from students is very important to NUGSS when putting on student activities, on and off campus. Any student can start a club; all you do is follow the guidelines of the Sports and Clubs Policy. Come and see the NUGSS Sports and Clubs Director for information on starting a club. The Society also promotes a student newspaper and other communication methods which provide students with a means to voice their views and ideas.

■ Parking

There are three main lots available for parking on campus. All vehicles must be parked in one of the designated parking lots. Parking spaces that provide close and easy access to campus entrances have been designated for students with disabilities.

Annual, by semester, or daily permits are available.

A valid parking permit must be clearly displayed. Vehicles not clearly displaying a valid parking permit will be subject to a parking infraction notice and/or towing without warning at the owner's expense and risk.

The University assumes no liability for damage to or theft from vehicles parked on campus. However, you can help Campus Security and yourself by locking valuables in the trunk and ensuring your car is locked. Report any damage or theft from your vehicle to Campus Security.

Help lines, connecting the caller to Security, are installed in several locations. Campus Security provides an escort service to and from the parking lots for students, staff and faculty.

■ Regional Operations

UNBC is mandated to serve all of British Columbia with a special commitment to northern BC.

The Office of Regional Operations is responsible for the development and delivery of degree programs, courses and services to students throughout the UNBC region.

A network of regional service is growing and will continue to develop over the life of the University. At present the University maintains three regional campuses to serve the Northwest, Peace River-Liard, and the South-Central regions. These offices provide program development, support to faculty, liaison with the local colleges, and assistance to students.

Full degree completion in a limited number of program areas, including graduate degrees in some professional programs, is available at all UNBC regional campuses. The programs vary from region to region and are offered through a combination of face to face instruction and distance delivery.

The University maintains a unique partnership arrangement with the Wilp Wilxo'oskwhl Nisga'a. The WWN offers course work, centred in the Nass Valley, leading to a Bachelor of Arts or a Certificate in Nisga'a Studies.

Students who plan to study at one of the regional campuses, or who plan to relocate in order to study at any UNBC campus, are directed to contact the appropriate Regional Office for information and assistance. See inside back cover for contact information.

SERVICES AND FACILITIES

The University maintains co-operative program and service arrangements with the three northern colleges: College of New Caledonia, Northern Lights College, and Northwest Community College, as well as with the University College of the Cariboo. There are different services and opportunities at each of the campuses. Food services, parking, student activities, and many of the other services available to Prince George students are processed differently dependent upon location and the college partner. Full information can be obtained through UNBC Regional Offices.

Northwest Regional Office

In the Northwest Region there is a UNBC office in Terrace to provide local access and to assist students with applications for admission and other business with the university.

Teaching takes place in several regional centres as well. In Terrace the University offers graduate and professional programs and a selection of undergraduate courses in such disciplines as English, First Nations Studies, History, and Psychology. Audioconference and WWW courses round out the mix. In Prince Rupert the focus is on the “Courses on the Coast” which are intensive format courses that bring students from other places to join local learners studying such topics as an International Studies perspective on the ‘fish wars,’ regional geography and labour history.

Elsewhere in the region, community-based courses in the languages and cultures of the First Nations of the Northwest enrich the university’s offerings: Tsimshian, Haisla, Witsuwit’en have each been offered several times in various centres, and the Regional Chair has regular meetings with communities on Haida Gwaii and with educators in the Gitksan area as well.

Peace River-Liard Regional Office

Fort St. John is home to UNBC’s Peace River-Liard Regional Office and is located in Northern Lights College’s Fort St. John Campus. UNBC has developed a strong partnership with Northern Lights College and School District #60. Most of the courses offered are taught face-to-face in Fort St. John, and many are teleconferenced throughout the region to students in Dawson Creek, Chetwynd, and Fort Nelson.

In September 1999, the University launched a new Environmental Planning degree with an energy specialization. It’s expected that students will be able to complete the first three years of this four-year program in the region. The final year of study would be completed at the Prince George campus. Students also have the opportunity to pursue course work leading to degrees in Arts, Sciences, Natural Resource Management, and Environmental Studies.

South-Central Regional Office

UNBC’s South-Central Region includes the following major communities: 100 Mile House, Burns Lake, Fort St. James, Fraser Lake, McBride, Quesnel, Valemount, Vanderhoof and Williams Lake. In Quesnel the regional campus is shared with the regional campus of the College of New Caledonia. We also plan and offer courses in co-operation with the Williams Lake campus of the University College of the Cariboo, and a number of community skills centres and other local educational agencies.

In the Region we offer a wide variety of UNBC courses to assist students in achieving their goals of obtaining a degree, enhancing knowledge of their career or pursuing general interests. Offerings to date have included Anthropology, Commerce, English, First Nations Studies, Geography, History, Nursing, Psychology, Social Work, Women’s Studies and others. Delivery is face-to-face or via a range of distance delivery modes including audioconference, videoconference and Web. In addition to Quesnel and Williams Lake, courses have been delivered to date in Wells, Barkerville and Valemount. Others will be added as resources are available and student demand dictates, so prospective students are encouraged to contact the Regional Chair to discuss their needs.

UNBC Distance Delivery

In order to increase the number of courses and choices available to students throughout the UNBC region and beyond, the University offers a number of courses at all of its campuses using a variety of distance technologies. Through use of interactive audio or video conferencing, students take classes with a professor who may be located at any one of UNBC’s campuses, and who is linked to the students’ classroom by the conferencing technology. All of these classes have regularly scheduled meeting times and these are published each semester by the Regional Offices.

The University also offers a limited number of courses on the World Wide Web. Students taking courses using this technology will be able to obtain course outlines and materials, give presentations to the class, hold discussions with the professor and/or their classmates, and submit or pick up assignments—all on the Web. Current offerings are published on the Regional Operations home page.

A significant number of courses delivered at regional campuses are also offered in the traditional method, with a professor physically present in the classroom.

■ Student Services

The primary goal of Student Services is to ensure that the needs of students are given top priority within the institution and that the University provides the necessary services to foster student success.

Student Services includes the Academic Advising Centre, Office of the Registrar, Housing, International Centre and

the Student Success Centres: Counselling, Learning Skills, Health and Wellness, Awards, Financial Aid, and Student Employment, Athletics and Recreation, orientation activities, Chaplaincy, and services to students with learning and physical disabilities.

Academic Advising Centre

The Academic Advising Centre provides information that can help students make informed choices about academic matters. The Centre offers a wide variety of services to students to help them realize their educational goals at UNBC and beyond. These services include:

- assistance with course selection, planning and registration
- understanding program and degree requirements
- clarifying academic policies and regulations
- assistance with questions regarding transfer credit summaries
- course planning for students admitted with conditions or who are on Academic Probation
- referrals to faculty advisors and other institutional and community support services

The Academic Advising Centre also processes Applications to Graduate and issues Letters of Permission for students who wish to take a course at another institution.

Office of the Registrar

The Office of the Registrar is responsible for many aspects of a student's life. The Office handles student recruitment, including school visits, campus tours and special events; undergraduate and graduate admissions, including assessment of transfer credit; registration; records management, including student records, student appeals, and transcripts; the annual Convocation ceremony; and scheduling, including courses and exams. Also, the Office provides secretarial support to Senate and Senate Sub-Committees and interprets the collection and dissemination of information for the Freedom of Information and Protection of Privacy Act. In addition, the Office of the Registrar prepares for production of many University publications including the Calendar and the Viewbook.

Senate Secretariat

The Senate Secretariat is responsible for co-ordinating Senate and Senate committee meetings, publishing their minutes, and conducting annual elections for representatives to Senate. The Secretariat also maintains an archival record of all Senate decisions and background materials.

University Housing/Residence

Housing Services, located in the lower level of Residence I, is responsible for the on-campus residences and for maintaining an off-campus housing registry.

On-Campus Housing

UNBC residences offer reasonably priced apartment style accommodations that are clean, comfortable, safe and convenient for single university students. As an integral part of the educational program and academic support services, University Housing provides a comprehensive Residence Life program which further promotes and enhances the overall educational experience and academic success of students.

Each residence building contains two and four bedroom suites, all fully self-contained. The kitchen contains a full size range and refrigerator; the large common area contains a dining table with four chairs, a sofa and a coffee table.

Each bedroom is fully furnished with a large, single bed (with drawers located beneath), bookshelf, desk and chair. A computer outlet is located in each bedroom. This allows students to connect to the University's computer network, for those with appropriate hardware and software.

Demand of on-campus housing is high, so it is important to apply early. Applications will be accepted starting February 1, 2000 for the Fall Semester. Students can make application by mail or through the Internet.

For more information visit our web site at <http://www.unbc.ca/housing/>

Off-Campus Housing

Housing services maintains a comprehensive off-campus housing registry. The registry is available on the web at <http://www.res.unbc.ca/off-campus>. The cost to place a listing on the web is \$10.00 per four month term.

International Opportunities

The University of Northern British Columbia considers itself to be an active participant in the global community. Its commitment to international education is reflected in the teaching, research and service missions of the institution. UNBC will endeavour to assist students and faculty in broadening their exposure to other countries and societies. Toward this end, the University has established a series of academic exchange programs with a number of partner institutions around the world. These academic exchange programs allow students and faculty the opportunity to study or conduct research in other countries for a specified period of time. Full details regarding the opportunities to participate in these exchange programs can be obtained from the International Centre.

International Students

The University of Northern British Columbia welcomes applications from qualified students from other countries. International students can make an important contribution to UNBC's global outlook by sharing their perspectives in classes and participating in campus activities.

SERVICES AND FACILITIES

The International Centre provides services to international students and assists them with their integration into campus and community life. Orientation services, international student handbooks, information on immigration regulations and opportunities for social and cultural involvement are available through this Centre located on Student Services Street.

Student Success Centres

Athletics and Recreation

Athletics

Last year (1999/2000) UNBC took another step into history, as the Varsity UNBC Basketball Teams competed for the first time in the BCCAA towards a provincial and national championship.



The Athletic Program also has a Junior Varsity program consisting of the hockey and soccer teams which compete in local recreation leagues, and the cross-country skiing and rugby teams which travel throughout the province for competition.

We hope all new and returning students come out to participate on or support the teams.

If you require any information concerning coach/contact names, schedules, or other information on the UNBC Athletic Program, please call us at (250) 960-6368.

Recreation

Sports clinics, intramural leagues and recreation classes provide students a relaxed and friendly atmosphere to participate and socialize in activities that promote health, fitness and personal development. Outdoor facilities include sand volleyball pits and an endless web of natural trails for cross-country running/skiing and mountain biking.

The Prince George facilities include two pools (one with diving towers), six hockey/skating rinks, a full competition running track, four golf courses, and an abundance of soccer, baseball and other fields.

Fitness Centre

The on-campus fitness centre, which includes three squash courts, one racquetball court, an aerobics room, a small gymnasium, and a weight room is the hub of fitness and health activities at UNBC. Offering a wide range of aerobic and weight training classes, group or individual clinics/sessions allow the staff to cater to all abilities and fitness levels. Saunas are available for after work-out relaxation.

Awards, Financial Aid, and Student Employment

UNBC's Awards, Financial Aid, and Student Employment office is committed to making students aware of the financial assistance available to them to help fund their post-secondary education. The Centre provides information concerning scholarships and bursaries, government student loans, Work Study, Special Opportunity/Canada Study Grants, employment opportunities, and other forms of financial assistance. Proactive, skill-enhancing workshops such as résumé writing, job interview preparedness, and budgeting are also offered throughout the academic year. The office is located on Student Services Street in the Agora of the Prince George campus. Service is also available through Regional Offices.

Career Development Services

UNBC encourages students to explore their career options and prepare for the job market. Visit Career Development Services, located on Student Services Street. Counselling is available for individuals who are uncertain about their career directions. Résumé-writing and interviewing workshops are also offered as a part of a UNBC education.

Counselling Centre

UNBC's professional counselling service makes available personal and career counselling to all students. These services are made available through individual and group counselling, and through networking with local community resources.

The Centre helps students with personal, educational and career counselling.

Health and Wellness Centre

The Health and Wellness Centre provides confidential services to students in an on-campus location. The goals of the Centre are: to help students manage short term illnesses, and to cope with other health problems while pursuing educational studies, to promote wellness, and to encourage healthy lifestyles. Services and programs are developed and delivered in partnership with students themselves, staff, faculty, student groups on campus, and various community resources. Students are encouraged to volunteer in various Health Centre activities, and participate on the Health Council.



All UNBC students are strongly advised to carry health care insurance through their home province, British Columbia, or privately, although insurance is not required for most Centre services.

Specific services include:

- nurse, physician, and specialty clinics
- health and wellness information resources
- health care insurance information
- wellness promotional events and activities
- peer helper services

Interfaith Campus Chaplaincy

The Interfaith Campus Chaplaincy is a team of chaplains representing a variety of faith groups. Its purpose is to provide spiritual resource services to students, faculty and staff. The Chaplain's role is to assist in providing spiritual support, education and care. As a resource to the University, the Chaplaincy acts as a bridge for all faith groups seeking to be active on campus. The Chapel is located in the Agora.

Learning Skills Centre

The Learning Skills Centre helps all UNBC students who want assistance to develop the learning strategies, writing abilities, and basic mathematics and statistics skills needed for academic success at the University. The Centre offers help with:

- study skills: time management, test preparation, test taking, textbook reading, note taking
- writing: how to interpret assignments, generate ideas, organize, revise, and edit
- basic mathematics and statistics



Students with Disabilities

The University of Northern British Columbia encourages academically qualified persons with disabilities to apply for admission to its programs. A variety of services are available to meet the needs of students with documented disabilities. These services enable students with disabilities to access the University facilities and to take part in the available programs.

Applicants with disabilities are encouraged to contact a Disabilities Advisor at Disability Services regarding the content of the University's *Access and Accommodation Policy for Students with Disabilities*. It is important to make contact with Disability Services as early as possible to discuss documentation requirements and to make arrangements for appropriate accommodations and resources.

The University buildings were designed to meet the needs of those with mobility problems, and wheelchair access and special parking facilities are available.

University Library

The University Library is located on two floors of the Library Building with the main entrance located on the second floor. The Library is open seven days a week during the Fall and Winter semesters and closed on all holidays observed by the

University. An external book drop at the main entrance allows you to return library materials when the library is closed.

The Library provides books, journals, audio-visuals and other materials to support the University's academic program. The collection consists of over 1,000,000 items including 170,000 books, 1,200 current journal subscriptions, 2,200 audiovisuals and 460,000 microform titles. The Library has an extensive collection of web-based and CD-ROM indexes which support the research needs of faculty and students. It also houses several specialized collections including archives and rare books. The microform collection includes regional newspapers, government documents, Statistics Canada publications, ERIC documents, British Columbia Archeological Permit Reports, and the Canadian Institute for Historical Micro-reproductions pre-1920 Monographs collection (CIHM). Collection access is provided through an on-line computerized catalogue system.

The Reference desk is staffed on weekdays and weekends during the Fall and Winter semesters. Professional library staff is available to assist students in taking full advantage of the library's print and electronic information resources.

An intensive bibliographic instruction program aimed at making students independent researchers is offered by the library. A self-paced Library Skills Tutorial is mounted on the UNBC Library catalogue and printed guides are available to assist library patrons. Instructional sessions in research skills are available throughout each semester on a one-to-one basis or in group sessions. General library tours and workshops are offered at the beginning of each semester. Specific orientations designed to meet the needs of a select group on a given topic are available on request. Schedules for the research skills sessions and library tours are posted throughout the campus and on the University's Electronic Bulletin Board.

The Library has access to several hundred external databases. Inquiries concerning on-line searching of these databases should be directed to the Reference Desk. The University of Northern British Columbia's affiliation with the Inter-university Consortium for Political and Social Research (ICPSR) entitles UNBC researchers access to a large archive of social science data files. The UNBC Library is also a participant in the Data Liberation Initiative that provides access to Statistics Canada data files and databases for teaching and research purposes.

The Library collection is supplemented by a resource sharing and document delivery service which gives timely access to other research collections. Library patrons can initiate their own interlibrary loan requests from the University of British Columbia and through many of the library's on-line journal indexes.

Specialized amenities include a computer workstation adapted for use by visually impaired, an Arkenstone reading machine, a CCTV, and a wheelchair accessible table.

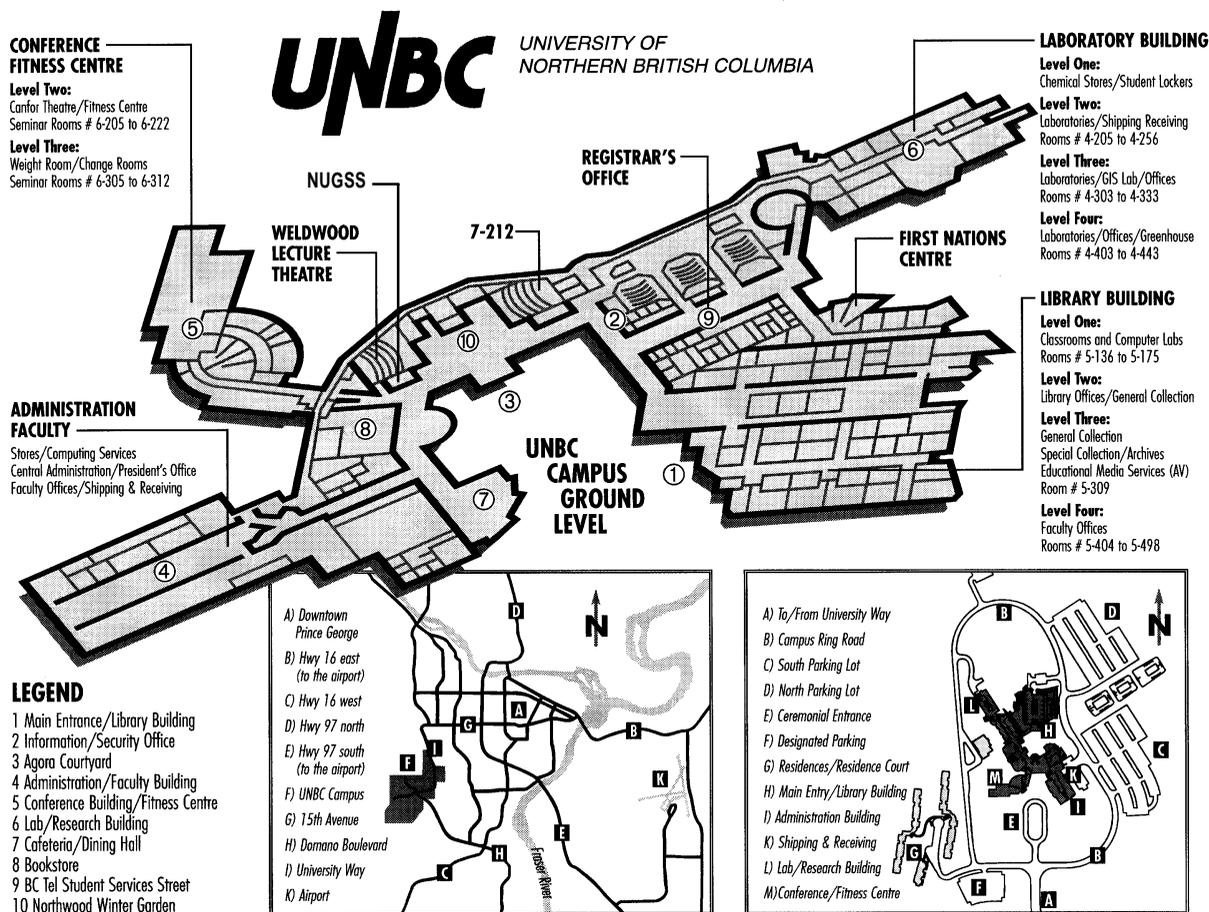
For more information about the Library, please visit the library's web site at <http://www.library.unbc.ca>

Prince George Campus

More Than the Prince George Campus

UNBC is a regional university, and is much more than the Prince George campus. In addition to the three regional campuses in Fort St. John, Terrace and Quesnel, UNBC offers courses throughout northern BC in towns such as

Dawson Creek, Chetwynd, Fort Nelson, New Aiyansh, Prince Rupert, and Williams Lake. Courses are taught at these campuses through face to face instruction, audio conferencing, and the use of innovative full motion interactive video conferencing—your classmates can be hundreds of kilometres away! See inside back cover.

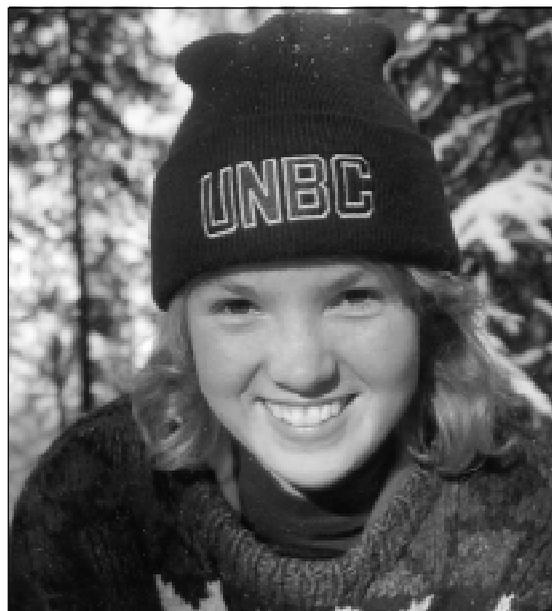


Awards and Financial Aid

Awards, Financial Aid and Student Employment Centre helps students to obtain the funds necessary to finance their UNBC education and to provide educational budgeting services. Funds may be obtained from a variety of sources, including: government and bank loans, private, corporate, and public scholarships and bursaries; UNBC awards; work study; and employment opportunities.

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Association of BC Professional Foresters Bursary
Bank of Montreal Aboriginal Scholarship
Bank of Montreal Annual Scholarships
BC Association of Social Workers, Northern Branch Bursary
BC Medical Services Foundation Health Sciences Bursaries
BC Northern Real Estate Board Awards
BC Professional Foresters Award for Excellence
BCR Group Incentive Scholarship
British Columbia Association of Social Workers Prize
Canada Trust Bursary
Canadian Federation of University Women Scholarship
Canadian Institute of Forestry Bursary
Canadian Venture Exchange Inc. Scholarship
Canfor Annual Undergraduate Scholarships
Canfor Annual Undergraduate Bursaries
Canfor Annual First Nations Scholarship
Cariboo Bar Association Bursary
CGA Academic Excellence Scholarship
CGA Continuing Education Tuition Scholarship
Cliff-Marcel Bursary
CMA Award
CN Gold Medal Scholarship
CN Nationwide Scholarship
CN Regional Scholarships
Credit Union Foundation of BC – George Viereck Memorial Bursary
Dave Johnson Memorial Bursary
Deloitte and Touche Scholarship
Doug Little Scholarships
Dr. Patrick Carson Bursary
Dunkley Lumber Ltd. Scholarship and Bursary

FINANCIAL AID

Earl B. Finning Scholarship
Environmental Dynamics Inc. Bursary
Financial Executives Institute, Vancouver Chapter
Scholarship
FMC of Canada Ltd. Scholarship
Frank Oberle Scholarship
Fred Garnett Memorial Scholarship
Gary Johnson Memorial Bursary
Geoffrey R. Weller Scholarship
Gilroy Prize
Gordon Bryant Family Scholarship
Gordon S. Brownridge Memorial Bursary
Governor General's Silver Medal
Guru Gobind Singh Temple Association Scholarship
Hans Langner Junior Chamber of Commerce
Scholarship
H.B. (Herb) Osen Bursary
Human Resource Management Association Bursary
Ian McTaggart-Cowan Wildlife Management
Scholarship
Industrial Forestry Service Ltd. Scholarship
Insurance Corporation of British Columbia Bursary
Fund
Ivor Killy Scholarship
Jack Lee Scholarship
Jane Layhew Nursing Bursary
John and Eileen Bryan and Family Bursary
Keith Gordon and Ted Williams Scholarship
KPMG Scholarship
LA LeFebvre and Associates Scholarship
MacMillan Bloedel Scholarship
Madrone Annual Bursary
Marumi Scholarship
Matthew Halpin Memorial Bursary
Mitsui Home Co. Ltd. Scholarship
Multiple Sclerosis Scholarship, Prince George Chapter
Nechako Chapter No. 40 – Order of the Eastern Star
Bursary
Norman B Crist RPF Forestry Awards for Excellence
Northern Interior Cruising Committee Scholarship
Northern Society of Oilfield Contractors and Service
Firms Bursary
Northwood Legacy First Nations Scholarship
Northwood Legacy Undergraduate Bursaries
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Novak Bros. Contracting Ltd. Scholarship and Bursary
Patrick Walsh Memorial Scholarship
Peter Bloodoff Scholarship
Prince George Chapter IODE Bursary
Prince George Gyro Club Bursary
Prince George Medical Society Scholarship
Prince George Savings Bursary
Prince George Savings Scholarship
Provincial Chapter of BC, IODE Bursary for Nursing
PRT Scholarship
Russell & DuMoulin Annual Scholarship
Sandwell Scholarship
Seniors Festival Bursary
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Simons Foundation International Education Scholarship

Society of Canadian Women in Science and
Technology (SCWIST) Michael Smith Scholarship
Student-to-Student Scholarship
Tourism Prince George Bursary
UNBC In-Course Scholarships
van Adrichem Undergraduate Summer Research
Bursary
Vancouver International Airport Authority Annual
Scholarship
Vancouver Port Authority Annual Scholarship
Vernon C. Brink Scholarship for the Study of
Biological Diversity
Weldwood Bursary
Weldwood Scholarship
Westcoast Energy Scholarship and Bursary
William Dow Ferry Scholarship
Wilson King Annual Scholarship
Women's Equality Bursary

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Birks Family Foundation Annual Bursary
Cora Donald Bursary
Daphne Anderson Memorial Prize
E.G. (Robbie) Robertson Bursary
Eileen Williston Bursary
Elizabeth Kellie Chapter IODE – Josephine Swann
Bursary
Gary Johnson Endowed Memorial Bursary Fund
Industrial Forestry Service Ltd. Bursary
Jessie Craig Bursary
Louis & Irene Monasch and Family Bursary
Max and Violet Enemark Bursary
Neil and Amelia Peterson Bursary
Northern Collegiate Rugby Society Annual Award
Phillips, Hager and North Investment Management Ltd.
Bursary
Prince George and District Dental Society Bursary
Prince George Elks Lodge #122 and the Order of the
Royal Purple #48 Bursary
Rogers Sugar Bursary
Rotary Clubs of BC Scholarship and Bursary
Scotiabank Bursary
ScotiaBank Scholarship
ScotiaMcLeod Matching Grant
Shoppers Drug Mart/Imasco Bursary
Shoppers Drug Mart/Imasco Community Involvement
Bursary
Simons Foundation Bursaries for Single Mothers
Steadman Family Matching Grant
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I. Awards

The University of Northern British Columbia is committed to encouraging students from diverse backgrounds and experience to further their academic education through the establishment of scholarships, which promote academic excellence, and bursaries, which assist students in overcoming financial barriers to post-secondary education. All awards established at the University of Northern British Columbia are subject to acceptance by the University Senate.

1. Applications

Application forms for Early Admission Awards are available at the offices of high school guidance counsellors, other post-secondary institutions, and at UNBC Student Success Centres. An on-line application form is also available by accessing the UNBC website: www.unbc.ca

Individual applicants are responsible for knowing the application deadlines, providing complete information on the application form and for supplying any supporting documentation that is required.

The deadline for applying for awards is April 1, 2001.

Application forms are not carried over from one award period to the next. Applicants are required to submit a new application form, along with any supporting documentation required, for each award period.

2. Definitions

Unless otherwise stated these definitions apply to the **Criteria** listed on subsequent pages.

Academic Excellence

Normally a minimum A- average, equivalent to or greater than a 3.67 GPA.

Academic Proficiency

Normally a minimum B- average, equivalent or greater than a 2.67 GPA.

Satisfactory Academic Standing

Normally a minimum C average, equivalent or greater than a 2.00 GPA.

Minimum Standing

For the purpose of awards eligibility, minimum standing (“passing grades”) shall be considered equivalent to satisfactory academic standing.

Annual GPA

Calculated on the basis of grade point averages for credit hours completed during the awards year, May 1 – April 31.

Award Units

Calculated by multiplying the credit hours completed during the specified term by the grade points received for those hours.

Full-time Student

For the purpose of awards eligibility, an undergraduate student who registers in and attempts nine or more credit hours per semester in an undergraduate degree program will be considered a full-time UNBC student.

New Post-secondary Student

A student who has not previously attended a post-secondary institution such as a college or university.

Resident of Northern BC

The area comprising northern British Columbia is defined in the University of Northern British Columbia Act.

A resident of northern British Columbia is so categorized by virtue of birth or continuous dwelling within the defined region for the four years immediately prior to admission at UNBC.

Award Types

Award

An award may be a fellowship, scholarship, bursary, prize or other monetary or non-monetary recognition assigned to a student.

Fellowship

Usually available only to graduate students, awarded on the basis of high academic achievement (academic excellence or academic proficiency) toward which secondary criteria may be applied.

Scholarship

Awarded on the basis of high academic achievement (academic excellence or academic proficiency) toward which secondary criteria may be applied.

Bursary

Awarded on the basis of demonstrable financial need, provided the student has met the requirement for satisfactory academic standing, toward which secondary criteria including academic achievement may be applied.

Prize

The award's value may be non-monetary, such as a book or other gift-in-kind, or if monetary, its value is normally less than \$250.

Medal

The award is an academic medal, awarded on the basis of academic achievement, toward which secondary criteria may be applied.

Award Categories

Admission

Available to students commencing an undergraduate course of studies at UNBC for the first time.

In-course

Available to undergraduate students who have completed at least 18 credit hours (nine credit hours per semester) at UNBC during the current awards year and are continuing a course of studies at UNBC.

Graduate

Available to students who are enrolled in a Master's or Doctoral program. A full-time graduate student is one who is enrolled in six credits or more per semester, or is enrolled in a thesis, project or comprehensive examination. Please

consult the Graduate Calendar for a list of awards available to graduate students.

Transfer

Certain awards are available to those students who are entering UNBC after having commenced degree studies at other institutions. In all circumstances a minimum of 18 transfer credit hours is required. Eligibility for awards is based on the Registrar's calculated transferable hours and grade point average.

Part-time

Available to students who are registered in less than nine credit hours each semester.

Open

These awards are available to all categories of undergraduate students, including new post-secondary, transfer, in-course and graduate students. Some awards may also be available to Faculty.

Renewable

An award which was made upon the student's enrolment to UNBC and which has the possibility of being renewed annually subject to the renewal terms and conditions as defined in the award's criteria.

External

Awards which are administered outside of UNBC but for which UNBC students are eligible. Separate application forms may be required.

3. Administrative Policies

Unless otherwise stated these policies apply to the criteria listed on subsequent pages.

Admission Awards

Admission awards are open to students commencing an undergraduate degree program at the University of Northern British Columbia for the first time. To be considered for awards adjudicated on the basis of criteria such as leadership skills and community service, it is recommended that students submit a résumé or curriculum vitae along with a completed Application for Awards to the Awards and Financial Aid office.

New students will be evaluated on their admission average as calculated by the Office of the Registrar. Students who have prior post-secondary experience will be evaluated on the grade point average of their transferable courses as calculated by the Office of the Registrar.

In-course Awards

Students continuing a course of studies at UNBC should apply for UNBC's scholarships and bursaries; to be considered as well for awards adjudicated on the basis of criteria such as leadership skills and community service, it is recommended that students submit a résumé or curriculum vitae along with a completed Application for Awards to the Awards, Financial Aid, and Student Employment Centre. Unless otherwise stated, in-course awards are available to undergraduate students who have completed a minimum of 18 credit hours (nine credit hours per semester) over the awards year (June 1 – May 31). Applicants are evaluated based on their annual GPA, their calculated grade point average for courses taken within the academic year. In case of a tie, preference will be given to students who have successfully completed a greater number of courses over the term under consideration. Credit hours will be multiplied by grade point averages to determine any student's awards units:

Example

Student	A	B
Total credit hrs/3 sem	27.0	30.0
Annual GPA	4.0	4.0
Award units	108.0	120.0

Student B, with higher award units, will be given preference in award selection. The cumulative GPA shall be used to break ties between identical award units.

Awards Ceiling

The University reserves the right to limit the amount of money awarded to any student and, if necessary, to reassign awards to other students by reversion. The Senate Committee on Awards and Recognition will generally recommend that no individual student receive an award or combination of awards exceeding a determined value. UNBC Merit Awards and UNBC In-course Scholarships are considered to be stand-alone awards, and will not be awarded to students who are in receipt of other academic awards of equal or greater value.

Disbursement

It is generally understood that students will be enrolling in both the Fall and the Winter Semesters. Funds will be deposited directly into the students' UNBC accounts in two equal disbursements: the first on or about October 1 and the second on or about February 1.

Awards may be deferred for a period of one semester only. Requests for deferrals must be made in writing to the Awards, Financial Aid and Student Employment Centre.

The University reserves the right to apply awards proceeds against outstanding fees owing to the University. If the amount of the award or awards exceeds the unpaid fees for the semester, the student may apply for a refund of the excess balance.

Liability

Any award may be withheld or cancelled for any of these reasons: lack of suitable candidates; failure to meet the terms and conditions of the award; withdrawal from the University or withdrawal of the award by the donor. Furthermore, the University assumes liability for the payment of scholarships, bursaries, prizes, and other awards only to the extent that expected gifts from donors or returns from particular investments of endowed funds are realized. The University also reserves the right to make whatever changes are required, including cancellation of particular awards or changes to criteria.

Requirements

Unless otherwise stated, all awards are conditional upon confirmation of full-time registration at the University of Northern British Columbia in the Fall and Winter Semesters immediately following the granting of the award.

■ II. Awards List

1. Early Admission Awards

These awards are for those students just leaving high school and who are attending a post-secondary institution for the first time.

President's Scholarships

Donor The University of Northern British Columbia

Value \$5,000, renewable at \$2,000 per annum for up to three years.

Number Two

Eligibility Available to full-time students commencing a course of studies at UNBC for the first time.

Criteria Academic excellence; demonstrated leadership skills and community involvement.

Note Applicants are asked to submit a brief letter of under 500 words outlining their proposed program of study at UNBC and how past achievements, including information regarding leadership roles and community involvement, will affect their university career. This award is renewable subject to the recipient maintaining an annual GPA of at least 3.33.

Established 1994

Raven Scholarships

Donor The University of Northern British Columbia

Value \$3,700

Number Variable

Eligibility Available to full-time students commencing a course of studies at UNBC for the first time.

Criteria Academic excellence.

Established 1994

Raven Bursaries

Donor The University of Northern British Columbia

Value \$1,500

Number Variable

Eligibility Available to full-time students commencing a course of studies at UNBC for the first time.

Criteria Satisfactory academic standing and demonstrated financial need.

Established 1994

UNBC Achievement Awards

Value \$1,500

Number Variable

Eligibility Available to full-time students entering a degree program at UNBC.

Criteria Academic proficiency, demonstrated student leadership.

Note Applicants must fill out a "UNBC Achievement Award Nomination Form", which is available at BC Secondary School counseling offices and at the Financial Aid office at UNBC. Two letters of recommendation, one from the student's school official and one from another source, must accompany the application. Students are required to submit a written rationale for their nomination, attesting to their leadership activities (athletics, student government, etc.). The deadline to apply for this award is December 15 each year.

Established 1997

UNBC Scholars

Value Tuition fees, renewable to a maximum of 120 credit hours

Number Fifty-two

Eligibility These tuition remission scholarships are available each year to grade 11 students in northern British Columbia and Yukon high schools who have attained the highest academic average in their high school. The scholarship will take the form of a waiver of full tuition fees to a maximum of 120 credit hours (or the number of credit hours required for a Bachelor's degree). The recipients must meet UNBC admission requirements and be Canadian citizens or have landed immigrant status. The award is tenable upon registration in a full course load at UNBC (i.e. 15 credit hours per semester).

Criteria Academic excellence.

Note No application is required. Each high school in northern British Columbia will nominate the student with the highest GPA at the end of grade 11 (minimum 80%). These scholarships are renewable annually subject to the recipients registering in a full course load at UNBC each semester and attaining at least an annual GPA of 3.00 ("B" average) in the academic year (normally Fall and Winter semesters).

Established 1998

2. Admission Awards for New Post-secondary Students

These awards are for students entering post-secondary education for the first time.

BCR Group of Companies Entrance Scholarship

The BCR Group is dedicated to diversifying its revenue base and becoming a customer-focused, market-driven organization providing efficient and integrated services in transportation, real estate, telecommunications, and related services. The BCR Group of Companies' broad base of activities includes road and intermodal transportation, telecommunication marketing, real estate development, passenger services and transportation consulting, with rail freight its primary business enterprise.

Donor BCR Group of Companies

Value \$1,000

Number One

Eligibility Available to a student entering the first year of an undergraduate degree program at UNBC who is pursuing a course of study related to transportation, telecommunications, and/or business management.

Criteria Academic excellence.

Note The recipient of this award may be eligible to receive the BCR Incentive Scholarship (*see In-course Awards listing*).

Endowed 1994

Brian and Jackie Brownridge Family Bursary

Established to assist the residents of the Prince George area in their pursuits of higher education. As longtime residents of the city, Brian and Jackie Brownridge remain committed to the community and in particular the growth of UNBC in serving the northern part of the province.

Donor Brian and Jackie Brownridge

Value \$1,000

Number One

Eligibility Available to a full-time student entering first year who is pursuing a degree in Business Administration (BComm Program). Preference will be given to graduates of northern high schools as defined by School District 57.

Criteria Demonstrated financial need. Final selection will be made on the basis of greatest financial need.

Established 1998

Chancellor Iona Campagnolo Scholarship

Iona Campagnolo, UNBC's Founding Chancellor, is a distinguished Canadian and British Columbian. She is an integral part of this University's vision, declaring that the University of Northern British Columbia will be a welcoming place for all students, not grudgingly, or in spite of their colour, race, gender or place of origin, but in frank celebration of it.

Donor Friends of Chancellor Campagnolo and UNBC

Value \$1,250

Number One

Eligibility Available to a new student who is a resident of northern British Columbia. The scholarship will be awarded in even years to a woman and in odd years to a man, and

scholarships will be distributed evenly, when possible, amongst the differing sub-regions. Preference will be given to students in Health and Human Sciences, Political Science, International Studies, First Nations Studies, or Women's Studies.

Criteria Academic excellence, social excellence, community service.

Note Letters of recommendation should accompany applications.

Endowed 1992

Dr. Alvin and Mrs. Janie Mooney Scholarship

Endowed by the Rotary Club of Vanderhoof in recognition of the outstanding contribution made by Dr. and Mrs. Mooney to the community of Vanderhoof and to northern British Columbia.

Donor The Rotary Club of Vanderhoof

Value \$1,000 - \$1,250

Number One

Eligibility Available to a full-time student commencing an undergraduate program of studies at the University of Northern British Columbia after graduating from secondary schools located in Fort St. James, Vanderhoof, Fraser Lake and surrounding rural areas.

Criteria Academic proficiency with a minimum GPA of 3.33 or greater and demonstrated community service.

Endowed 1994

Fort St. James Scholarship

This scholarship was made possible through a grant from the District of Fort St. James and its residents.

Donor The Fort St. James Chamber of Commerce

Value \$500

Number One

Eligibility Available to a permanent resident of Canada, who immediately prior to commencing studies at UNBC, graduated from Fort St. James Secondary and is entering the first year of an undergraduate degree program.

Criteria Academic excellence.

Endowed 1993

Pepsi Bottling Group Prizes

Donor Pepsi Bottling Group

Value \$300

Number Two

Eligibility Available to new students commencing a course of full-time study at UNBC. Preference will be given to a student graduating from O'Grady Catholic High School, Quesnel Secondary School, and a Spruce Kings Hockey Player.

Criteria Superior academic proficiency.

Established 1997

Her Majesty Queen Elizabeth II City of Prince George Bursary

A perpetual bursary has been established by the City of Prince George to commemorate the visit of Her Majesty Queen Elizabeth II on August 17, 1994.

Donor The City of Prince George

Value \$1,000

Number One

Eligibility Available to a student commencing a full-time course of undergraduate studies. The recipient must be a City of Prince George resident for at least five years immediately prior to attending UNBC.

Criteria Academic proficiency, outstanding citizenship as demonstrated by involvement in school, college, or community activities. At least one and not more than three testimonial letters attesting to the candidate's civic involvement are required.

Applicants are also required to submit a letter outlining the type and extent of their activities. Demonstrated financial need may be a consideration.

Established 1994

Interim Governing Council Scholarship

The University of Northern British Columbia's Interim Governing Council, comprised of 21 members, was the decision-making body of the University until December 1993 when a Board of Governors and Senate replaced it.

Donor Members of the UNBC Interim Governing Council

Value \$1,000

Number Variable

Eligibility Available to new post-secondary students who are residents of northern and central British Columbia.

Criteria Academic excellence and collaborated community service.

Note Letters of specific recommendation must accompany applications.

Endowed 1992

Prince George Medical Society Bursary

This fund has been established by members of the Prince George Medical Society who wish to support undergraduate students of the University of Northern British Columbia to attain their full potential as productive members of society by the provision of annual scholarships and bursaries.

Donor Prince George Medical Society

Value \$750

Number Variable

Eligibility Available to new full-time students commencing a program of studies in preparation of applying to medical school, indicating a desire to pursue a career in medicine.

Criteria Demonstrated financial need.

Endowed 1993

UNBC Faculty and Staff Bursary

Donor UNBC Faculty and Staff

Value \$600

Number Two

Eligibility Available to a new post-secondary student who is a resident of northern British Columbia.

Criteria Satisfactory academic standing and demonstrated financial need.

Endowed 1993

UNBC Faculty and Staff Scholarship

Donor UNBC Faculty and Staff

Value \$700

Number One

Eligibility Available to a new student who is a resident of northern British Columbia.

Criteria Academic excellence.

Endowed 1993

Valerie Rose Schouwenburg Memorial Bursary

Valerie Rose Schouwenburg was a highly respected teacher in Prince George who was concerned that too many school students in northern British Columbia do not seek to realize their full individual potential by pursuing post-secondary education and professional qualifications. As a testament to Valerie Rose and her ideals, the Schouwenburg Family has established a memorial bursary in Valerie's name.

Donor The Schouwenburg Family

Value \$2,000, renewable for four years

Number One

Eligibility Available to a full-time student who has attended high school in School District 57 for at least three consecutive years immediately prior to commencing studies at UNBC, and who intends to pursue a career in Education.

Criteria Demonstrated financial need and academic excellence.

Note The bursary will be renewed a maximum of four times on the condition that the recipient maintain a minimum 2.00 cumulative GPA.

Endowed 1994

3. Admission Awards for Undergraduate Students New to UNBC

These awards are available to students as they first commence a course of studies at UNBC. Transfer students, mature students, and new post-secondary students may be eligible.

Curt Merritt Bursary

In honour of Curt Merritt's passion for life, his family, friends and colleagues established this bursary. A lifelong Prince George resident, he attended CNC before receiving his degree from Memorial Chiropractic College. Curt will be remembered as an avid outdoorsman who loved flying and racing his sled dogs, and for his perseverance to finish the race and overcome his own Dyslexia.

Donor Family, Friends and Colleagues of Curt Merritt

Value \$500 per academic term, renewable up to three terms

Number Two

Eligibility Available to a full-time student who has been diagnosed by a qualified professional for "Dyslexia" (any reading and/or writing learning disability). Preference will be given to a resident of northern British Columbia.

Criteria Demonstrated financial need.

Note This bursary is renewable up to three semesters, subject to the original conditions and requirements, plus maintenance of satisfactory academic standing.

Endowed 1997

Heather Sadler Jenkins Annual Scholarship

Heather Sadler Jenkins, Barristers and Solicitors, has served the Prince George area since 1971. The firm and in particular one of its partners, W. Murray Sadler, QC, was involved in a leadership role in the establishment of UNBC as the founding President of the Interior University Society, a member of the Implementation Planning Group and Chair of the Interim Governing Council. The first offices of UNBC were established in the chambers of Heather Sadler Jenkins. Heather Sadler Jenkins is proud to have been associated with the University of Northern British Columbia and establishes this scholarship for the purpose of encouraging and assisting students from the Prince George area to attend UNBC.

Donor Heather Sadler Jenkins

Value \$2,000

Number One

Eligibility Available to a full-time student who is a first time registrant in any year of study. Candidates will be resident of the Prince George area and must have graduated from high school in School District #57. Preference will be given to candidates demonstrating leadership and community involvement, and to students who have not been chosen to receive other financial awards in the same academic year.

Criteria Academic excellence, with preference to students demonstrating financial need.

Established 1999

Jim and Noreen Rustad Bursary

Jim and Noreen Rustad have deep roots in Prince George. Jim was the general manager and president of Rustad Bros. and Co. Ltd., a large sawmill and planer mill that was started by his father and uncle in 1947. Noreen is the daughter of Garvin and Bea Dezell. Garvin was a former mayor of Prince George. In 1992, Noreen received the Governor General Award for her community volunteer activities. Jim and Noreen are pleased to be able to support qualifying Prince George students from first year to graduation at UNBC.

Donor Jim and Noreen Rustad

Value \$3,500

Number Two, renewable for up to three years

Eligibility Available to a full-time student who is enrolled in a Bachelor's degree program at UNBC. The candidate will be a resident of Prince George as defined by the boundaries of School District 57, by virtue of birth or four years uninterrupted residency immediately prior to receipt of the Bursary.

Criteria Demonstrated financial need, academic proficiency and community/volunteer service.

Note The recipient may receive the bursary for up to three consecutive years, or until a Bachelor's Degree is obtained (whichever is the shorter period) subject to achieving satisfactory academic standing with a course load commensurate with attaining a Bachelor's degree within four years.

Endowed 1996

McCarthy Tetrault Annual Scholarship

McCarthy Tetrault supports the First Nations people of British Columbia in their quest for higher education and all of the benefits that will entail. The firm has established this annual scholarship to recognize and congratulate those First Nations students who are enrolled in the Northern Advancement Program and are committed to obtaining a university degree.

Value \$750

Number One

Eligibility Available to a full-time student who is enrolled in the Northern Advancement Program. The recipient must be a resident of northern British Columbia as defined by the UNBC Act by virtue of birth or uninterrupted residence for three years immediately prior to commencing current studies at UNBC. Preference will be given to a First Nations Student.

Criteria Academic excellence.

Established 1997

The Provincial Chapter of BC, IODE Entrance Bursary for Mature Students

Founded in Canada in 1900, IODE is a volunteer organization of women who participate in areas of citizenship (welcoming new Canadians at citizenship courts), education (providing scholarships and bursaries as well as loans at all levels) and service (providing equipment and supplies to areas of need or emergency). IODE is friends working together to make “good things” happen in their communities.

Donor The Provincial Chapter of BC IODE

Value \$1,000

Number Two

Eligibility Available to a Canadian citizen who has been accepted under the UNBC mature student policy and who is commencing a program of study towards a degree from the Faculty of Health and Human Sciences. Preference will be given to a northern resident by virtue of birth or by continuous dwelling for four years immediately prior to admission at UNBC.

Criteria Financial need and satisfactory academic standing.

Endowed 1992

UNBC Merit Awards

Donor The University of Northern British Columbia

Value \$500

Number Variable

Eligibility Available to full-time students commencing a course of studies at UNBC for the first time.

Criteria Academic proficiency.

Conditions UNBC Merit Awards are stand-alone awards, and will not be awarded to recipients of other academic awards of equal or greater value.

Established 1994

4. In-course Undergraduate Awards

These awards are available to current UNBC students who have completed at least 18 credit hours at UNBC during the past award year.

Aldyen Hamber Women’s Studies Bursary

Value \$750

Number One

Eligibility Available to a full-time student enrolled in his or her third year, majoring in the Women’s Studies program at UNBC.

Criteria Demonstrated financial need, demonstrated interest in community involvement, including activities inside and/or outside the university.

Note The Faculty will nominate the recipient.

Established 1998

Alex C. Michalos Award

Dr. Alex C. Michalos F.R.S.C. was one of the early faculty members of UNBC, serving as the Chair of the Political Science program. Much of Dr. Michalos’ scholarly work has been concerned with improving the quality of life through applications of science and technology. Dr. Michalos founded and edits the Journal of Business Ethics and Social Indicators.

Donor Dr. Alex C. Michalos

Value \$1,000

Number One

Eligibility Available to a student who has completed a minimum of 30 credit hours toward an undergraduate degree at UNBC.

Criteria Academic excellence and demonstrated community/volunteer service in the Prince George community.

Note Candidates will provide three letters of recommendation with the application. Recipients of this award may receive it more than once.

First Award 1998

Analog Investments Ltd. Scholarship

Donor Analog Investments Ltd.

Value \$500

Number One

Eligibility Available to full-time students who are Canadian citizens and residents of northern British Columbia by virtue of birth or uninterrupted residence for five years immediately prior to commencing current studies at UNBC. The recipients will have completed less than 60 credit hours towards qualifications in Forestry.

Criteria Academic proficiency.

Note No student may receive this award twice. The Faculty will nominate the recipient.

Endowed 1993

Ann McQuaid Memorial Scholarship

The University of Northern British Columbia is honoured to establish this award in recognition of Ann McQuaid’s outstanding contribution to the community of Prince George, to education, as a Member of UNBC’s Senate and as Chair of the Senate Committee on Scholarships and Bursaries. The many committees on which she served will continue to benefit for generations to come from her keen analytical skills and strong set of values. These values and her integrity helped shape many decision-making standards and policies.

Value \$1,000

Number One

Eligibility Available to a student enrolled at UNBC who has completed at least 30 credit hours towards an undergraduate degree in the Faculty of Arts and Social Sciences. The recipient will have a demonstrable record of community service, involvement and leadership.

Criteria Academic excellence.

Established 1998

Anthony Karpicius Scholarship

Anthony Karpicius worked for Northwood Inc. in the Prince George Region for many years. Those who knew him say he was grateful for the higher standard of living he enjoyed here. This scholarship is a tribute to the generous and hard-working spirit of Mr. Karpicius.

Donor The Estate of Anthony Karpicius, as bequeathed to the Ministry of Forests

Value \$1,000

Number Variable

Eligibility Available to full-time students enrolled in the Natural Resources Management program with a declared major in Forestry.

Criteria Academic excellence.

Note The Faculty will nominate the recipients.

Endowed 1991

Arne & Lesley Carlson Scholarship

This award was established in honour of Arne and Lesley Carlson in celebration of their lives and of their life work in Archaeology. Arne and Lesley were friends of the Anthropology Program since UNBC opened, and Arne was instructing in the Program in the Fall of 1998. Together they brought great expertise to their business "Traces Archaeological Research", gaining the respect of colleagues in academia, government and resource management, as well as that of the First Nations with whom they worked. Their enthusiasm will remain both contagious and inspirational.

Donor: Family and Friends

Value \$500

Number Two

Eligibility An Anthropology major with upper division standing or graduate student in the College of Arts, Social and Health Sciences focusing their studies on the archaeology of northern British Columbia. At least one scholarship each year will be awarded to an undergraduate student.

Criteria Academic Excellence

Note The Anthropology Program will nominate the recipients from the applicant pool.

Established 1998

Arthur Andersen Bursary

Arthur Andersen is a global firm providing economic and financial consulting services, business consulting services, tax and business advisory services, and audit and business advisory services. The company knows that education is part of progress and success and its investment in education has always been a defining feature of the company. The Arthur Andersen Bursary supports UNBC students, especially First Nations individuals, as they strive to advance their knowledge and skills in the area of business and commerce.

Donor Arthur Andersen & Co.

Value \$2,500

Number One

Eligibility Available to a full-time student who has completed a minimum of 30 credit hours towards a Bachelor of Commerce degree. Preference will be given to a First Nations student.

Criteria Demonstrated financial need.

Endowed 1997

Association of BC Professional Foresters Bursary

The participants and the sponsors of the 47th Annual General Meeting of the ABCPF, held in Prince George, BC in February 1995 made this bursary possible.

Donor Association of BC Professional Foresters

Value \$900

Number One

Eligibility Available to a full-time student enrolled in third or fourth year with a declared major in Forestry. The course of study will be pursuant to meeting the certification requirements for Eligibility as a BC Registered Professional Forester.

Criteria Financial need and satisfactory academic standing. In case of a tie, the award will be given to the candidate with superior academic achievement.

Note The Faculty will nominate the recipient.

Endowed 1996

Bank of Montreal Aboriginal Scholarship

Value \$1,500

Number One

Eligibility Available to a student who is a resident of northern British Columbia as defined by the UNBC Act by virtue of birth or uninterrupted residence for three years prior to commencing current studies at UNBC. The candidates will have completed at least 60 credit hours towards a Bachelor of Commerce degree, and will have attended UNBC during the first two years of study or will have transferred to the University from a regional community college in northern British Columbia. Preference will be given to a First Nations student.

Criteria Academic proficiency. Final selection will be made on the basis of superior academic achievement.

Endowed 1996

Bank of Montreal Annual Scholarship

The Bank of Montreal is dedicated to creating an equitable workplace and developing a workforce that matches the diversity and dynamism of the communities it serves. This ethos will result in the Bank's greater capacity to attract and retain the best employees, the most loyal customers, and the most satisfied shareholders.

Donor The Bank of Montreal

Value \$1,000

Number Two

Eligibility Available to students enrolled in their third or fourth year of undergraduate studies in the Faculty of Management with a declared major in Finance, General Business and/or Marketing. Recipients must be residents of northern British Columbia as defined by the UNBC Act. Preference will be given to students who have indicated an interest in pursuing a career with a Financial Institution.

Criteria Academic excellence. Final selection will be made on the basis of superior academic achievement.

Note Applicants are required to submit a letter outlining their career goals. The Faculty of Management will recommend nominations.

Established 1996

BC Association of Social Workers, Northern Branch Bursary

Started by the BCASW members in the early 1980's to support students from northern BC pursuing their degree in Social Work, this bursary was transferred to UNBC in 1994. Fundraising efforts by many social workers continue to contribute to reducing financial barriers for students.

Donor BC Association of Social Workers – Northern Branch

Value \$500

Number Variable

Eligibility Available to full-time students who have completed at least 90 credit hours towards a degree in Social Work and who are residents of northern British Columbia.

Criteria Financial need. Preference will be given to a single parent. Should two or more students qualify, the Chair of the Social Work program will recommend a candidate on the basis of the student's potential to contribute the most to the northern British Columbia social work field.

Note The recipients will be invited to address a meeting of the BC Association of Social Workers.

Endowed 1994

BC Medical Services Foundation Health Sciences Bursaries

Donor BC Medical Services Foundation

Value \$500 to a maximum of \$4,500

Number Variable

Eligibility Available to full-time students in the Health Sciences programs of Nursing, Psychology or Social Work who have completed at least 60 credit hours of post-secondary education. Students who express their intent to pursue a career in Clinical Psychology are also eligible to receive these bursaries. Recipients must be residents of northern British Columbia.

Criteria Demonstrated financial need.

Established 1996

BC Northern Real Estate Board Awards

The BC Northern Real Estate Board is a not-for-profit society comprised of Realtors who serve the real estate related needs of the people in the geographical areas from 70 Mile House to the Yukon border, and from the Alberta border to the Queen Charlotte Islands. The mission of the Board is to provide service to its members in order to promote the highest standard of professionalism. Since 1995, BCNREB has provided five — \$1,000 awards every year to undergraduate students enrolled at UNBC.

Donor The BC Northern Real Estate Board

Value \$1000

Number Five

Eligibility Available to full-time students who have completed at least 30 credit hours towards an undergraduate degree at UNBC. The student recipients' home town must be within the geographical boundaries defined by the Yukon border in the north, 70 Mile House in the south, Queen Charlotte Islands in the west, and the Alberta border in the east. Dawson Creek and immediate environs are however excluded. Preference will be given to immediate relatives of a Board member (i.e. spouse, child, grandchild, parent or their spouses).

Criteria Demonstrated financial need and community involvement.

Note In the event of two equal candidates for one award, the determining factor will be the highest academic standing. Recipients of these awards may apply for and receive this award more than once.

Established 1995

BC Professional Foresters Award For Excellence

Forestrust is the charitable arm of the Association of BC Professional Foresters established in 1984 to provide funding for scholarships and awards to further the advancement of forestry education in British Columbia and to focus public awareness and education activities on the management of forest resources in British Columbia.

Donor Forestrust

Value \$500 - \$1,000

Number Variable

Eligibility Available to a full-time student continuing studies in a program offered by the Faculty of Natural Resources and Environmental Studies who is eligible to become a BC Registered Professional Forester and who has completed a minimum of 30 credit hours.

Criteria Academic excellence and student involvement.

Conditions Tenable upon confirmation of full-time enrolment in a Faculty of Natural Resources and Environmental Studies program at UNBC.

Note Nominations for this award will be evenly split between recommendations by the Faculty of Natural Resources and Environmental Studies and joint recommendation by the Faculty of Natural Resources and Environmental Studies' student representatives.

Endowed 1993

BCR Group Incentive Scholarship

The BCR Group is dedicated to diversifying its revenue base and becoming a customer-focused, market-driven organization providing efficient and integrated services in transportation, real estate, telecommunications, and related services. The BCR Group of Companies' broad base of activities include road and intermodal transportation, telecommunication marketing, real estate development, passenger services and transportation consulting, with rail freight its primary business enterprise.

Donor BCR Group of Companies

Value \$1,500

Number One

Eligibility Available to a student who has successfully completed at least 90 credit hours in a UNBC undergraduate degree program while maintaining a 100% course load, and who is pursuing a course of study related to transportation, telecommunications, and/or business management.

Criteria Academic excellence. Preference will be given to a student who has previously been awarded the BCR Entrance Scholarship.

Note Applicants must submit a brief letter stating their career plans and reasonably demonstrate substantial interest in transportation, telecommunications or business management. The Faculty will nominate the recipient.

Endowed 1994

British Columbia Association of Social Workers Prize

The British Columbia Association of Social Workers members work in a wide variety of fields including child welfare, mental health, hospitals, alcohol and drug programs, non-profit organizations, social planning, corrections, counselling centres and private practice. The Association assists in the development of guidelines for standards of practice in different fields of social work as well as providing benefits to their members in areas of providing current updates and advice on professional matters, job-finding services and professional development opportunities.

Donor BC Association of Social Workers

Value \$250

Number One

Criteria Available to a full-time student who has completed a minimum of 30 credit hours towards a degree in Social Work who is a resident of northern British Columbia.

Criteria Financial need and academic proficiency.

Note The recipient will be awarded the bursary based upon recommendation of the Chair of the Social Work program.

Established 1996

Canada Trust Bursary

Canada Trust is recognized for its contribution to the Canadian environment through project funding provided by the Canada Trust Friends of the Environment Foundation, established in 1990. In keeping with the company's focus on the protection and preservation of the environment, Canada Trust recognized the importance of the Environmental Studies program at UNBC and established the Canada Trust Bursary Fund in support of students pursuing a course of study in this program.

Value \$1,000

Number Two

Eligibility Available to a full-time student who has completed at least 60 credit hours towards a Bachelor of Science or Bachelor of Arts degree with a declared major in Environmental Studies.

Criteria Satisfactory academic standing and demonstrable financial need.

Established 1999

Canadian Federation of University Women (Prince George) Scholarship

Founded in 1919 as a national organization of women university graduates with members in 130 clubs across Canada, the Canadian Federation of University Women promotes education and actively participates in public affairs. The Prince George chapter provides opportunities for fellowship and support as well as holding meetings on educational, cultural and social issues.

Value \$1,400

Number One

Eligibility Available to a full-time student who has completed between 30 and 60 credit hours in a General Arts and Science program. Awarded to a mature student who will be 21 years or older at the commencement of the fall semester in the year the award is received. Preference will be given to a female candidate.

Criteria Academic excellence.

Endowed 1994

Canadian Institute of Forestry Bursary

This bursary is provided in celebration of the newly emerging University of Northern British Columbia and its Faculty of Natural Resources and Environmental Studies in the hopes that the institution will produce leaders who can tackle resource management issues with insight, knowledge, and vision.

Donor Canadian Institute of Forestry, Cariboo Section

Value \$700

Number One

Eligibility Available to a full-time student who has completed between 60 and 90 credit hours in a program offered by the Faculty of Natural Resources and Environmental Studies and is pursuing a course of study in Forestry, Biology, and/or Ecology.

Criteria Demonstrated interest in integrated wildlife/forest management, leadership skills, and academic proficiency.

Note The Faculty will nominate candidates.

Endowed 1993

Canadian Venture Exchange Inc. Scholarship

Founded in 1907 as a stock market to finance Western Canada's natural resource industries, the Canadian Venture Exchange Inc. has evolved into a world venture marketplace. Three service values integral to the VSE have also evolved: to provide an ethical, full service marketplace; a commitment to quality, professional service for their customers; and the strengthening of their people through mutual respect and support.

Donor The Canadian Venture Exchange Inc.

Value \$1,500

Number One

Eligibility Available to a full-time student who is entering third or fourth year in the Faculty of Management Bachelor of Commerce program and is majoring in Finance. The successful candidate must be a returning student.

Criteria Academic excellence.

Established 1994

Canfor Annual Undergraduate Scholarships

Canfor Corporation is a leader in the forest products industry in Canada and a company that strives for excellence. The corporation is establishing *The Canfor Annual Awards* to recognize outstanding academic achievement and assist those students in financial need. These awards will attract top students in all areas of study and enhance accessibility to UNBC's educational programming. Northern British Columbia is an area of particular importance to Canfor and the corporation's re-investment in it is through the support of university students who will manage and steward this area.

Donor Canfor Corporation

Value \$1,500

Number Four

Eligibility Available to full-time students who have completed at least 30 credit hours and have declared a major in Business Administration or Natural Resources Management. Preference for one scholarship in each of the program areas will be given to dependent relatives of active or retired Canfor employees or retired employees of the Northwood Legacy Organization.

Criteria Academic proficiency.

Note Recipients of these awards are ineligible for receipt of the Northwood Legacy Endowed Scholarships and Bursaries and vice versa.

Established 2000

Canfor Annual Undergraduate Bursaries

Canfor Corporation is a leader in the forest products industry in Canada and a company that strives for excellence. The corporation is establishing *The Canfor Annual Awards* to recognize outstanding academic achievement and assist those students in financial need. These awards will attract top students in all areas of study and enhance accessibility to UNBC's educational programming. Northern British Columbia is an area of particular importance to Canfor and the corporation's re-investment in it is through the support of university students who will manage and steward this area.

Donor Canfor Corporation

Value \$1,500

Number Two

Eligibility Available to full-time students who have completed at least 30 credit hours and have declared a major in Business Administration or Natural Resources Management.

Criteria Academic achievement and demonstrated financial need.

Note Recipients of these awards are ineligible for receipt of the Northwood Legacy Endowed Scholarships and Bursaries and vice versa.

Established 2000

Canfor Annual First Nations Scholarship

Canfor Corporation is a leader in the forest products industry in Canada and a company that strives for excellence. The corporation is establishing *The Canfor Annual Awards* to recognize outstanding academic achievement and assist those students in financial need. These awards will attract top students in all areas of study and enhance accessibility to UNBC's educational programming. Northern British Columbia is an area of particular importance to Canfor and the corporation's re-investment in it is through the support of university students who will manage and steward this area.

Donor Canfor Corporation

Value \$1,500

Number One

Eligibility Available to full-time students who have completed at least 30 credit hours and have declared a major in an undergraduate program in one of the following areas: Natural Resources Management, Business Administration, or Health; or, be enrolled in one of the following Graduate program areas: Natural Resources Management, Health, or Education. Preference will be given to First Nations students.

Criteria Academic proficiency.

Note Recipient of this award is ineligible for receipt of the Northwood Legacy Endowed Scholarships and Bursaries and vice versa.

Established 2000

Cariboo Bar Association UNBC Bursary

Donor The Cariboo Bar Association

Value \$750 - \$1,000

Number Two

Eligibility Available to full-time students who reside within the Cariboo County. Preference will be given to students from rural areas or smaller communities outside the City of Prince George.

Criteria Satisfactory academic standing and financial need.

Endowed 1992

CGA Academic Excellence Scholarship

Donor Certified General Accountants Association of British Columbia

Value \$500

Number One

Eligibility Available to a full-time student who has completed at least 90 credit hours towards a Bachelor of Commerce (Accounting) degree at UNBC.

Criteria Academic excellence.

Note The Faculty of Business Administration will nominate the recipient. No student may receive this award more than one time.

Established 1996

CGA Continuing Education Tuition Scholarship

Donor The Certified General Accountants Association of British Columbia

Value \$600 credit towards CGA tuition fees

Number One

Eligibility Available to a full-time student graduating from the Bachelor of Commerce (Accounting) degree program who will be continuing their professional education on the CGA program.

Criteria Academic excellence.

Conditions Tenable upon confirmation of enrolment in the CGA program.

Note This award is awarded in the spring. The Faculty of Management will nominate the recipient.

Established 1996

Cliff-Marcel Bursary

Donor Mrs. Marceline Fairbairn

Value \$1,500

Number One

Eligibility Available to a Canadian First Nations student who has completed at least 30 credit hours towards a degree.

Criteria Academic proficiency and financial need.

Endowed 1993

CMA Award

Scholarships are awarded annually by the Certified Management Accountants Society of BC honouring top business students from UNBC.

Donor The Certified Management Accountants Society of BC

Value \$1,000 credit towards CMA student fees

Number Up to five

Eligibility These continuing education tuition awards will be granted to graduating students who will continue their education in pursuit of the CMA professional accounting designation.

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Criteria Applicants must possess all 15 prerequisite course credits as defined by CMA to be eligible to write the Society's Entrance Examination. The scholarships will be awarded to those students who have a final program GPA in the top quartile of the graduating group and have the highest GPA's in COMM 312/411.

Conditions Awarded upon enrolment in the Certified Management Accountant professional accounting program.

Note Awarded in the Spring. The Faculty will nominate the recipient.

Established 1996

CN Gold Medal Scholarship

Donor CN Rail

Value \$2,500

Number One

Eligibility Available to a full-time student who is a resident of northern British Columbia and is pursuing studies in management, transportation, marketing, and/or regional development. The recipient will have completed at least 60 credit hours towards a UNBC degree, either through attending UNBC or through transferring from a regional community college in northern British Columbia. Preference will be given to a First Nations student.

Criteria Academic excellence. Final selection will be made on the basis of superior academic achievement.

Endowed 1994

CN Nationwide Scholarship

Donor CN Rail

Value \$2,000

Number One

Eligibility Available to a full-time student from any region in Canada who is pursuing studies in management, transportation, marketing and/or regional development and who has completed at least 60 credit hours towards a UNBC degree.

Criteria Academic excellence. Final selection will be made on the basis of superior academic achievement.

Endowed 1994

CN Regional Scholarships

Donor CN Rail

Value \$1,500

Number Two

Eligibility Available to full-time students who are residents of northern British Columbia, are pursuing studies in management, transportation, marketing, and/or regional development, and who have completed at least 60 credit hours towards a UNBC degree either through attending UNBC or through transferring from a regional community college in northern British Columbia. Recipients must be residents of northern British Columbia by virtue of birth or uninterrupted residence for three years immediately prior to commencing current studies at UNBC. First preference for one scholarship will be given to a student who is a direct relative of a CN employee.

Criteria Academic excellence. Final selection will be made on the basis of superior academic achievement.

Endowed 1994

Credit Union Foundation of BC – George Viereck Memorial Bursary

The Credit Union Foundation of BC offers bursaries from the George Viereck Memorial, which was established by BC Credit Unions in tribute to a pioneer that embodied the basic roots of the credit union and co-operative movement in Canada.

Value \$1000

Number One

Eligibility Available to full-time students enrolled at UNBC who are residents of British Columbia who may have difficulty completing their program of study due to financial hardship.

Criteria Demonstrated financial need.

Established 1996

Dave Johnson Memorial Bursary

David Lloyd Johnson was District Manager for the BC Ministry of Energy, Mines & Petroleum Resources, based in Charlie Lake, BC for 36 years. Those who worked with Mr. Johnson came to respect him for his leadership in the oil and gas industry and his strong sense of fair play and integrity. The Dave Johnson Memorial Bursaries provide a legacy to a man who made a number of important contributions to the oil and gas industry in northern BC. The awards are available to students from that region, Alberta, or Western Canada enrolled in the Energy Specialization of the Environmental Studies program at UNBC.

Donor The Committee for the Dave Johnson Memorial Fund

Value \$4,000

Number One

Eligibility Available to a full-time student enrolled in the third or fourth year of post-secondary studies, having completed at least 60 credit hours towards a university degree. The candidate will be enrolled in a Bachelor of Science degree in the Environmental Studies program, Energy Specialization. Preference will be given to residents of British Columbia, particularly the Peace River/Liard Region of British Columbia, by virtue of birth or uninterrupted residence of a minimum of four years immediately prior to beginning studies at UNBC. Should no candidate meet the above requirements, second preference will be given to candidates who are residents of Alberta and then western Canada.

Criteria Demonstrated financial need and satisfactory academic standing.

Note Candidates must supply reference letters from two professors. The Faculty will nominate the recipient.

Established 1999

Deloitte and Touche Scholarship

The partners of Deloitte & Touche, Chartered Accountants, are pleased to provide this award to students interested in a career in accounting.

Donor Deloitte and Touche Chartered Accountants

Value \$3,000

Number One

Eligibility Available to a full-time student who is pursuing studies within the Faculty of Management and has completed less than 30 credit hours towards a degree.

Criteria Academic excellence.

Endowed 1993

Doug Little Scholarships

J D (Doug) Little, former Senior Vice President at Northwood Inc., was a strong advocate for the founding of UNBC. He was widely regarded as the father of the private tree nursery in BC, championing many of the silviculture and forest management methods used today. Mr. Little received the Association of British Columbia Professional Foresters Distinguished Statesman Award for his outstanding efforts to assure better care of the forest.

Donor Sheila Little and family; in memoriam gifts from colleagues, friends, and business associates.

Value \$2,500

Number Two (one for a student in third-year studies, one for a student in fourth-year studies), subject to the availability of funds.

Eligibility Available to full-time students who have completed at least 60 credit hours towards a degree program offered by the Faculty of Natural Resources and Environmental Studies and who have declared a major in Forestry.

Criteria Academic proficiency with a minimum 3.0 grade point average, demonstrated leadership in the classroom and in the field, and a superior work ethic.

Note Applicants are required to submit a brief description of their views of current and future forest management activities. Candidates will be selected by the Faculty of Natural Resources and Environmental Studies in discussion with Mrs. Little and/or designate.

Endowed 1993

Dr. Patrick Carson Bursary

Arriving in Prince George in 1956, Patrick Carson held offices in the Medical Society and the Regional Hospital throughout his career. To help facilitate patient care, Dr. Carson and his colleagues built the Victoria Medical Building and established an on-site lab, the Prince George Medical Laboratory.

Donor Prince George Medical Laboratory

Value \$500

Number Variable

Eligibility Available to a student who is a resident of northern British Columbia by virtue of birth or five years uninterrupted residence immediately prior to the granting of the award, who has completed at least 60 credit hours in a Health Sciences program.

Criteria Demonstrated financial need and academic proficiency.

Note No student shall receive this Bursary more than once.

Endowed 1994

Dunkley Lumber Ltd. Bursary

Donor Dunkley Lumber Ltd.

Value \$1,000

Number One

Eligibility Available to a full-time student who is a resident of British Columbia by virtue of birth or five years uninterrupted residence immediately prior to receipt of the award. The student will have completed less than 90 credit hours in a program offered by the Faculty of Natural Resources and Environmental Studies. Preference will be given to a student who is a family member of Dunkley Lumber employees.

Criteria Demonstrated financial need and satisfactory academic standing.

Note No student shall receive the Dunkley Lumber Ltd. Bursary more than once. The Faculty will nominate the recipient.

Endowed 1992

Dunkley Lumber Ltd. Scholarship

Donor Dunkley Lumber Ltd.

Value \$1,500

Number One

Eligibility Available to a full-time student who is a resident of British Columbia by virtue of birth or five years uninterrupted residence immediately prior to receipt of the award. The student will have completed less than 90 credit hours in a program offered by the Faculty of Natural Resources and Environmental Studies. Preference will be given to a student who is a family member of Dunkley Lumber employees.

Criteria Academic excellence. Final selection will be made on the basis of superior academic achievement.

Note No student shall receive the Dunkley Lumber Ltd. Scholarship more than once. The Faculty will nominate the recipient.

Endowed 1992

Earl B Finning Scholarship

Donor Finning Ltd.

Value \$1,000

Number One

Eligibility Available to a resident of British Columbia, Alberta, the Yukon, or the Northwest Territories by virtue of birth or uninterrupted residence for three years immediately prior to commencing current undergraduate studies in the Faculty of Management at UNBC. Preference will be given to a resident of northern British Columbia.

Criteria Academic proficiency, with a minimum 3.33 GPA achieved in the most recent year of full-time study.

Endowed 1994

Environmental Dynamics Inc. Bursary

EDI Environmental Dynamics Inc. is a private, employee-owned British Columbia company incorporated in 1994. EDI specializes in watershed restoration, fisheries, and aquatic ecosystem inventory and assessment, environmental impact assessment, habitat mitigation and compensation, erosion and sediment control as well as environmental permitting and planning. This bursary was established in recognition of the students pursuing the interdisciplinary aspects of Natural Resources and Environmental Studies at UNBC.

Donor Environmental Dynamics Inc., Dwight Hickey, Valerie Giles

Value: \$1,000

Number One

Eligibility Available to a full-time student enrolled in third or fourth year Natural Resources Management with a declared major in Fisheries. Candidates must submit a short essay on innovation and interdisciplinary focus of Natural Resource Management.

Criteria Demonstrated financial need and academic proficiency.

Note Selection will be made on the recommendation of the Faculty of Natural Resources and Environmental Studies.

Endowed 1999

Financial Executives Institute, Vancouver Chapter Scholarship

An annual scholarship established by financial executives from the major corporations throughout BC who are members of this worldwide group, to recognize UNBC students pursuing a major in finance.

Donor The Financial Executives Institute, Vancouver Chapter

Value \$1,250

Number One

Eligibility Available to a student who has completed at least 90 credit hours towards a degree who has a declared major in Finance.

Criteria Academic excellence and demonstrated positive extra-curricular activity.

Conditions Applicants must submit a 1,000-word essay describing career goals.

Note The Faculty will nominate the recipient.

Established 1996

FMC of Canada Limited Scholarship

As a worldwide company with stakeholdings in northern British Columbia, FMC wishes to ensure a strong northern employee base, and to protect the environment. At FMC, people from across operations work together in teams. Their shared perspectives spark innovation, identify opportunities, and generate exciting new products.

Donor FMC Canada Limited Peroxygen Chemicals Division

Value \$1,000

Number One

Eligibility Available to a full-time student who is a resident of northern British Columbia and who has completed a minimum of 60 credit hours and declared a major in Chemistry and/or Biochemistry. Second preference will be given to a student who has completed between 30 and 60 credit hours with a Chemistry and/or Biochemistry focus.

Criteria Academic excellence with a minimum 3.67 annual GPA; demonstrated leadership in the classroom and in the field; and a superior work ethic.

Note The Chemistry Chair and the Faculty of Science will nominate the recipient.

Endowed 1993

Frank Oberle Scholarship

Frank Oberle was first elected to Parliament in 1972, and was re-elected in his riding of Prince George-Peace River in the six consecutive elections that followed. In November 1985, he was appointed Minister of State (Science and Technology), and in 1989 he became Minister of State (Forestry).

Donor Friends of Frank Oberle and UNBC

Value \$400

Number One

Eligibility Available to a full-time student who has completed between 60 and 90 credit hours in the Forestry and Natural Resource Management program.

Criteria Academic proficiency, community service and demonstrated commitment to forestry and natural resource management.

Note Faculty and peers will nominate. Candidates must submit two letters of recommendation from faculty or peers supporting their nomination for this award.

Endowed 1993

Fred Garnett Memorial Scholarship

Fred Garnett was respected in the Prince George Community for his professional expertise in the accountancy field and his dedication to community service. He was a founding member of the University of Northern British Columbia, having served as Treasurer for the Interior University Society.

Donor The Garnett Family, Friends and Colleagues

Value \$1,300

Number One

Eligibility Available to a full-time student enrolled at the undergraduate level in a degree program within the Faculty of Management who is a resident of northern British Columbia as defined by the UNBC Act.

Criteria Academic proficiency with a minimum GPA of 3.00 and demonstrated community service and extracurricular activities.

Gary Johnson Memorial Bursary

Gary Johnson was the proud owner of Lovelle Logging Ltd. and a longtime logging contractor in the Prince George area. Gary started in business in the mid-1970's, logging for Silva-Can at Lovell Cove, Rustad in the Bowron and finally Northwood around Prince George. One of his final requests was to establish an award at UNBC that would help ensure students of the region had every opportunity to attain a university education in forestry and move on to play a role in the industry. The Gary Johnson Memorial Bursary will be a legacy of this respected businessman and will support many students in financial need for years to come.

Donor The Gary Johnson Family

Value \$1,250

Number One

Eligibility Available to a full-time student enrolled and majoring in the Forestry program. The candidate will be a resident of the Prince George area (School District #57) for four years prior to enrolling at UNBC.

Criteria Financial need and satisfactory academic standing. Final selection will be made on the basis of greatest financial need.

Geoffrey R. Weller Scholarship

Geoffrey R. Weller was the Founding President of the University of Northern British Columbia from 1990 to 1995. He capably and successfully guided the University through the planning stages into its first year of full operation. He remains dedicated to UNBC, where he continues to teach and publish as a professor of International Studies.

Value \$1,100

Number One

Eligibility Available to a full-time student enrolled in third or fourth year with a declared major in International Studies. The recipient must be a resident of northern British Columbia by virtue of birth or five years uninterrupted residence immediately prior to the receipt of the award. Preference will be given to a candidate who is enrolled in a foreign exchange or study abroad program.

Criteria Academic excellence.

Endowed 1995

Gilroy Prize

Donor Michael and Beverley Gilroy

Value \$250

Number One

Eligibility Available to a student who is entering the fourth year of the Collaborative BSN program who has shown leadership in the Nursing profession through participation in related activities.

Criteria Academic excellence. The recipient will have achieved the highest GPA of all third-year Nursing Management students.

Note The Faculty of Health and Human Sciences will nominate the recipient.

Established 1994

Gordon Bryant Family Scholarship

Long time Prince George residents Gordon and Trudy Bryant were instrumental in establishing many major land developments and urban renewal projects. Mr. Bryant, a life long learner, earned two degrees in his 50's from UBC, both focusing on land use. Mr. and Mrs. Bryant still believe that northern British Columbia holds many opportunities and through proper planning and development, these opportunities will be realized and secured for generations to come.

Donor Mr. and Mrs. Gordon Bryant and Family

Value \$1,000

Number Variable

Eligibility Available to a full-time student who is a resident of northern British Columbia by virtue of birth or five years uninterrupted residence immediately prior to the granting of the award. The recipient must be enrolled in Business Administration majoring in the General Business program, and have completed a minimum of 60 credit hours towards his/her degree. The student must have a minimum 3.0 cumulative GPA.

Criteria Academic proficiency with a minimum GPA of 3.00, demonstrated leadership, and superior work ethic.

Note No student may receive this award twice.

Endowed 1992

Gordon S. Brownridge Memorial Bursary

A prominent lumberman and businessman in Prince George from his arrival in 1955, Gordon Brownridge felt the opportunities and lifestyle of the Central Interior to be unequalled. He played an active role in the growth and advancement of the area. Always one to enjoy the company of young people, it would give him a great deal of pleasure to assist in their education and pursuit of their goals.

Donor Brian and Jackie Brownridge

Value \$1,000

Number One

Eligibility Available to a full-time student entering second year who is pursuing a BSc in Natural Resources Management Forestry major. Preference will be given to graduates of northern high schools as defined by School District 57.

Criteria Demonstrated financial need. Final selection will be made on the basis of greatest financial need.

Established 1998

Governor General's Silver Medal

Donor The Governor General of Canada

Value Silver Medal

Number One

Eligibility Awarded in the final year to the undergraduate student who has the highest academic standing in the last two semesters of his/her first Bachelor degree program.

Criteria Academic excellence.

Note The Faculties will nominate candidates. This award may rotate between UNBC faculties.

Established 1996

Guru Gobind Singh Temple Association Scholarship

The Guru Gobind Singh Temple Association is responsible for promoting the Sikh culture in the community. The Association established this scholarship to encourage young people to seek the benefits afforded one through higher education.

Donor Guru Gobind Singh Temple Association

Value \$1,000

Number One

Eligibility Available to a full-time undergraduate student who has completed a minimum of 30 credit hours towards his or her degree. The recipient will be a member of a Sikh religion and will provide at least one testimonial letter attesting to his/her volunteer involvement in the Sikh community or Sikh Temple.

Criteria Academic proficiency.

Note A testimonial letter from the Sikh community or Sikh Temple must accompany the application.

Established 1998

Hans Langner Junior Chamber of Commerce Scholarship

As a memorial to Hans Langner, the Junior Chamber of Commerce of Prince George intends to promote and encourage excellence of scholarship and citizenship among the student residents of Prince George.

Donor Prince George Jaycees

Value \$800

Number Variable

Eligibility Available to residents of Prince George by virtue of birth or four years uninterrupted residence immediately preceding application and who have completed at least 60 credit hours but not more than 89 credit hours in a degree program within the Faculty of Management. The recipient(s) will be less than 40 years old at the time of the award.

Criteria Academic excellence, demonstrated community service.

Endowed 1993

H.B. (Herb) Osen Bursary

This Bursary has been established by Brian and Jackie Brownridge to recognize a great businessman and friend. Herb Osen was a founding partner of the TOS Insurance Group, based in Burnaby, BC, which he built into one of the premier insurance brokerage firms in Canada. Recognized by colleagues and employees alike as an industry leader, he provided opportunities to all those that worked with him. He established a standard for

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business ethics that we would all be proud to follow. It is appropriate that his name will continue to be associated with assisting our young people with their pursuits in Commerce.

Donor Brian and Jackie Brownridge

Value \$500

Number One

Eligibility Available to a full time student enrolled in the Bachelor of Commerce Program, having at least 60 credit hours towards their university degree. Preference will be given to students demonstrating leadership and community involvement.

Criteria Academic proficiency with preference to students demonstrating financial need.

Established 1999

Human Resource Management Association Bursary

The Human Resource Management Association (HRMA) is an organization of human resource professionals dedicated to providing leadership in the field of HR management by developing and communicating human resource management theories, methods and ethical practices.

Donor Human Resource Management Association – Northern Chapter

Value \$1,000 plus a one-year HRMA Membership

Number One

Eligibility Available to a full-time UNBC student who has completed a minimum of 60 credit hours in the Business Administration program, enrolled in a third year Human Resource Management course. The recipient will be planning to pursue a career in the Human Resources field.

Criteria Academic excellence, with consideration to financial need.

Note Applicants must submit a 100 word essay explaining why they should be awarded this bursary.

Established 1998

Ian McTaggart Cowan Wildlife Management Scholarship

Dr. McTaggart Cowan, a professor emeritus at the University of British Columbia, has dedicated a lifetime to studying, teaching, and conserving the natural resources of British Columbia. Recognized throughout the world as the Dean of Canadian Zoology, this scholarship in Wildlife Management is a fitting testament to his ideals and distinguished service to the people and resources of this province.

Donor Friends and colleagues of Dr McTaggart Cowan and UNBC including Environment Canada and Ministry of Environment, Lands, and Parks.

Value \$1,000

Number Variable

Eligibility Available to full-time students who have completed at least 60 credit hours in a program offered by the Faculty of Natural Resources and Environmental Studies. Preference will be given to students pursuing studies in wildlife biology and management.

Criteria Academic excellence. Financial need may be a consideration.

Note The Faculty will nominate the recipients.

Endowed 1993

Industrial Forestry Service Ltd. Scholarship

Established in 1952, based in Prince George, BC, the employee-owned Industrial Forestry Service Ltd. has grown with the forest industry to become a leading forestry consulting firm. IFS recognizes the benefits of providing motivated individuals with opportunities and challenges, and hopes to participate in the development of future skilled and innovative leaders through the awarding of this scholarship.

Donor Industrial Forestry Service

Value \$1,000

Number One

Eligibility Available to a full-time student who is a resident of northern British Columbia and has completed at least 60 credit hours towards a degree program with a declared major leading to certification with the Association of BC Professional Foresters.

Criteria Academic excellence.

Note The Faculty will nominate the recipient.

Established 1997

Insurance Corporation of British Columbia Bursary Fund

The Insurance Corporation of British Columbia (ICBC) is a provincial Crown Corporation established in 1973 to provide universal auto insurance to BC motorists. In addition, the Corporation is responsible for all driver and vehicle-related services, including commercial vehicle compliance. ICBC's mission is to "help British Columbians take the risk out of road transportation." ICBC works towards that goal by providing effective and reliable auto insurance to all BC motorists and developing and implementing a wide range of road safety and auto crime programs.

Donor Insurance Corporation of British Columbia

Value \$2,500

Number One

Eligibility Available to full-time students who have completed at least 30 credit hours of study and have declared a major in Business Administration. Preference will be given to First Nations students.

Criteria Academic proficiency and demonstrated financial need.

Note Candidates must have and maintain a safe driving record. Recipients will receive consideration for appropriate summer work opportunities where available.

Established 2000

Ivor Killy Scholarship

Ivor Killy was a leader in innovation in the forest sector and a highly respected member of the business and social community of Prince George and northern British Columbia.

Donor Family, Friends and Colleagues

Value First year of the award \$2,200 per annum; second year of the award \$3,300 per annum

Number One

Eligibility Available to a full-time student who has completed at least 60 credit hours towards their program with a declared major in either the Faculty of Natural Resources and Environmental Studies or Management and Administration. The recipient must be a resident of northern British Columbia as defined by the UNBC Act by virtue of birth or five years consecutive residence immediately prior to first receipt of the award.

Criteria Demonstrated community service and academic excellence.

Conditions Tenable for up to two years upon confirmation of the recipient receiving a minimum GPA of 3.00 in the first year of the award.

Endowed 1994

Jack Lee Scholarship

Jack Lee resided in Prince George from 1947 to 1980. In 1967, in his fifties, Mr. Lee established the Outrigger Polynesian restaurant and brought a unique dining experience to the city. The Lee family operated the business until 1976. The enterprise attracted attention from prominent visitors and earned mention in national publications. Mr. Lee believed in education, and as an entrepreneur always set high goals for himself and his family.

Donor Mrs. May Fon Lee and Family

Value \$1,000

Number One

Eligibility Available to a full-time student who has completed at least 60 credit hours toward a Bachelor of Commerce degree focusing on Asia and Pacific studies. The recipient must be a resident of British Columbia by virtue of birth or five years uninterrupted domicile immediately prior to receipt of the scholarship.

Criteria Academic proficiency with a minimum GPA of 3.33, demonstrated leadership abilities and work ethic. Preference will be given to a student who wishes to participate in an exchange program by studying at an accredited institution within the Pacific Rim.

Note No student may receive this award twice. The recipient will be encouraged to report to the benefactor and to give a formal academic presentation upon completion of the exchange.

Endowed 1993

Jane Layhew Nursing Bursary

Jane Layhew graduated as a Registered Nurse from the Prince Rupert and District Hospital in 1935. Jane spent 35 years at the Prince George Regional Hospital in various positions, including Head Nurse and Nursing Supervisor. Jane was well respected by her peers and is fondly remembered by those with whom she came in contact.

Donor Peter Layhew and Friends of Jane Layhew.

Value \$1,000

Number Two

Eligibility Available to a full-time student enrolled in the Collaborative BSN Program. The recipient will be a resident of BC, by virtue of birth or four years uninterrupted residence immediately prior to acceptance at UNBC, with preference given to a resident of northern BC.

Criteria Demonstrated financial need and satisfactory academic standing.

Note A student may be considered for this award more than once.

Endowed 1995

John and Eileen Bryan and Family Bursary

In 1970, John and Eileen Bryan adopted Prince George as their new home. They were fully aware of the struggle of many students to fulfill a dream of advanced education. "We are proud to have the opportunity to assist worthy youths to attain their goals."

Value \$1,000

Number Two

Eligibility Available to a full-time student who has completed at least 30 credit hours towards a major within the Faculty of Natural Resources and Environmental Studies. Preference will be given to candidates who are residents of northern British Columbia.

Criteria Demonstrated financial need and satisfactory academic standing.

Endowed 1997

Keith Gordon and Ted Williams Scholarship

Ted Williams was an ardent collector of local history, a long-time board member of the Fraser-Fort George Museum; one of the founders of the Prince George Public Library's local history committee; and served on the Community Heritage Commission, formerly the City's Heritage Advisory Committee. He played a key role in establishing the City's LC Gunn Park and was an important resource person in every historic event that took place in the City. He received numerous awards and honours for his participation in many clubs, groups and causes. He was deeply committed to telling and preserving the stories of the Prince George Pioneers.

Keith Gordon was an outstanding teacher of History and Geography for 32 years in School District #57. Over that time he touched the lives of thousands of students and inspired hundreds to pursue the fields of History and Geography in their post secondary education and in their careers. Keith was also an exemplary citizen of Prince George. He was involved in the Prince George Theatre Workshop, the Prince George Public Library and the College of New Caledonia. One of Keith's greatest passions was local history. As a past president and avid member of the Local History Committee, he worked tirelessly to bring the history of the community alive for Prince George residents.

This scholarship was established as a legacy to these two individuals who played such an important role in the development of Prince George and the region.

Value \$750

Number One

Eligibility Available to a full-time student enrolled and majoring in the History program. Candidates will have achieved at least a 3.67 GPA or A- average in their last semester of course work.

Criteria Academic excellence.

Endowed 1999

KPMG Scholarship

Donor KPMG

Value \$1000

Number Variable

Eligibility Available to a full-time student who is a Canadian citizen and a resident of northern British Columbia, who has completed between 60 and 90 credit hours in the Bachelor of

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Commerce degree program and who has declared a major in Accounting.

Criteria Academic excellence.

Endowed 1993

L. A. LeFebvre and Associates Scholarship

Born in Legal, Alberta in 1917, L. A. LeFebvre was a jack of all trades working in the lumber industry for most of his career until his retirement in 1983 from Prince George Pulp and Paper Mills. A resident of the Prince George area from 1949 to 1983, he was a founding member of the Knights of Columbus Council and a community supporter.

Donor L. A. LeFebvre and Associates

Value \$1000

Number One

Eligibility Available to a full-time student who has completed 90 credit hours towards a degree in Computer Science and is enrolled in the Faculty of Science. The recipient must be a Canadian citizen and cannot have previously won this scholarship.

Criteria Demonstrated community service or athletic involvement and academic proficiency. Preference will be given to a student with a minimum 3.33 annual GPA.

Endowed 1994

MacMillan Bloedel Scholarship

Donor MacMillan Bloedel Limited

Value \$1,000

Number One

Eligibility Available to a resident of British Columbia, by virtue of birth or uninterrupted residence for three years, pursuing an undergraduate degree in a Natural Resources Management program.

Criteria Academic excellence.

Note The Faculty will nominate the recipient.

Endowed 1994

Madrone Annual Bursary

Madrone is committed to maintaining the ecological integrity of the land base. They believe that through analysis and informed planning they make it possible for their clients to achieve the best possible management of our natural resources. Madrone has been providing high quality ecological and environmental services to Western Canada since 1988. Madrone believes in supporting innovative thought and alternative approaches to addressing issues of ecological importance. To that end, the Madrone Annual Bursary will be awarded to those students enrolled in the Natural Resources Management or Geography BSc programs who have demonstrated their dedication and interest in the pursuit and development of sustainable land and resource management skills.

Donor Madrone Consultants Ltd.

Value \$1,000

Number One

Eligibility Available to a full-time student who has completed at least 60 credit hours towards a declared major in Natural Resources Management (BSc) or Geography (BSc).

Criteria Demonstrated financial need and thesis submission on the area of sustainable resource management.

Note The Faculty will nominate the recipient.

Marumi Scholarships

The Marumi Sangyo Group, based in Nagoya, Japan, dates back to 1948 when they established a small lumber company dealing just in domestic lumber and finally moving into building and land development. Since 1990, Marumi has been a major importer of forest products from northern BC, with which it is building close ties. The scholarships are a fitting way of helping express these ties as the company moves into its 50th anniversary year.

Donor The Marumi Sangyo Company

Value \$2,500, renewable for up to one year

Number Two

Eligibility Available to students who have completed at least 30 credit hours towards a Bachelor of Science degree program, majoring in the fields of either Forestry, Environmental Science or Natural Resources Management.

Criteria Academic excellence.

Note These scholarships are renewable for up to one year, subject to the recipients maintaining a minimum 3.00 GPA.

Endowed 1996

Matthew Halpin Memorial Bursary

This award was established in memory of Matthew Halpin, one of the pioneering students at UNBC. May the recipient of this award enjoy the outdoors as much as Matt did!

Value \$1,000

Number One

Eligibility Available to a full-time student enrolled in third or fourth year majoring in either Resource Recreation (BSc program) or Resource-Based Tourism (BA program)

Criteria Financial need. Final selection will be made on the basis of greatest financial need.

Endowed 1998

Mitsui Home Co. Ltd. Scholarship

Donor The Mitsui Home Co. Ltd.

Value Variable

Number One

Eligibility Available to a full-time student who has completed at least 30 credit hours in the Bachelor of Commerce degree program and has declared a major in International Business. Preference will be given to students who can demonstrate an interest in international trade between northern British Columbia and Japan.

Criteria Academic excellence.

Endowed 1994

Multiple Sclerosis Scholarship, Prince George Chapter

The Prince George Chapter of the Multiple Sclerosis Society of Canada's mission is to be a leader in finding a cure for MS and enable MS people to enhance their quality of life.

Donor Multiple Sclerosis Society, Prince George Chapter

Value \$500

Number One

Eligibility Available to full-time students who are residents of northern British Columbia and who have completed less than 30 credit hours in a Health and Human Sciences degree program. Preference will be given to students demonstrating an intention to work in the Prince George region after graduation.

Criteria Academic proficiency.

Endowed 1993

Nechako Chapter No. 40 — Order of the Eastern Star Bursary

The Order of the Eastern Star is the largest fraternal organization for men and women in the world. Started in the mid-1800s, there are well over two million members worldwide today, with approximately 9,500 members in British Columbia and the Yukon. The moral and social purposes of the Order are to build character, to promote friendship and harmony among members, and to practice charity.

Donor Nechako Chapter No. 40 Order of the Eastern Star

Value \$750

Number One

Eligibility Available to a full-time student who has completed at least 30 credit hours who is either a member in good standing of the Order of the Eastern Star, or is directly related to a member in good standing.

Criteria Satisfactory academic standing and financial need.

Note Applicants must have their awards application form embossed with the official seal from their Eastern Star chapter before they submit it to the UNBC Financial Aid and Awards office.

Endowed 1994

Norman B Crist RPF Forestry Awards for Excellence

In memory of Norman B Crist RPF and in celebration of his successful forestry career, friends and colleagues have established these awards to assist worthy forestry students.

Donor Friends and Colleagues of Norman B Crist, through Forestrust, the charitable trust of the Association of BC Professional Foresters.

Value \$400

Number One

Eligibility Available to a full-time student in the Faculty of Natural Resources and Environmental Studies who is eligible to become a BC Registered Professional Forester and who has completed a minimum of 30 credit hours.

Criteria Excellence in extracurricular activities and academic proficiency.

Note Nominations will be recommended by the Faculty of Natural Resources and Environmental Studies and its student representatives.

Endowed 1993

Northern Interior Cruising Committee Scholarship

The Northern Interior Cruising Committee (NICC) has members from Industry, Ministry of Forests and Forestry Consultants. Their mandate is to promote a level of standards which is

imperative to the proper collection and processing of timber cruise data. This data is used to determine the quality and quantity of the timber within a stand and provide key information for use in the timber appraisal process.

Donor The Northern Interior Cruising Committee

Value \$500

Number One

Eligibility Available to a full-time student who has achieved strong academic and practical achievement in Natural Resource Management 203. The candidate must submit a brief essay demonstrating his/her commitment to forest mensuration by providing evidence of practical proficiency in cruising or related work (e.g. summer employment).

Criteria Academic excellence.

Note The Faculty will nominate the recipient.

Established 1997

Northern Society of Oilfield Contractors and Service Firms Bursary

The Northern Society of Oilfield Contractors and Service Firms is an association of member individuals, firms or corporations who maintain high standards of operations in the oilfield contracting and service businesses.

Donor Northern Society of Oilfield Contractors and Service Firms

Value \$1,000

Number One

Eligibility Available to a full-time student enrolled at the Fort St. John campus enrolled in the Bachelor of Science Environmental Planning – Energy Specialization program. The student will have completed at least 60 credit hours towards this degree. In the event that no third or fourth year student meets the criteria, preference will be given to a second year student, then a first year student. The student must be from the following geographical area by virtue of birth or continuous residence for four years prior to enrollment: a) first preference will be given to a student residing in northeastern British Columbia, as defined by the geographic height of land of the Rocky Mountains and the Yukon, NWT and Alberta borders and b) second preference will be given to a student residing in BC or Alberta north of the 54th parallel. Special consideration will be given to mature students.

Criteria Academic proficiency and demonstrated financial need.

Note A student may not normally receive this award more than once.

Endowed 1999

Northwood Legacy Undergraduate Scholarships

Northwood Inc. was a top ranked forestry products manufacturer with a rich history in northern British Columbia. Northwood was the first Partner to the University, donating over \$500,000 in 1993, hired UNBC's first Co-operative Education student in 1995, and the company and UNBC worked closely in research and teaching. Northwood Inc. merged with Canfor in 1999 and so, while the company itself no longer exists, its legacy will live on at UNBC. Northwood established these awards to recognize those students who have achieved academic excellence and who strive to prepare themselves for exciting careers. These awards will help to perpetuate the legacy of Northwood Inc. as a premiere forest industry leader.

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Donor Canfor Corporation

Value \$1,500

Number Four

Eligibility Available to full-time students who have completed at least 30 credit hours of study and have declared a major in Business Administration or Natural Resources Management. Preference for one scholarship in each of the program areas will be given to dependent relatives of active or retired Canfor employees or retired employees of the Northwood Legacy Organization.

Criteria Academic proficiency.

Note Recipients of these awards are ineligible for receipt of the Canfor Annual Scholarships and Bursaries and vice versa.

Endowed 1993

Northwood Legacy Undergraduate Bursaries

Northwood Inc. was a top ranked forestry products manufacturer with a rich history in northern British Columbia. Northwood was the first Partner to the University, donating over \$500,000 in 1993, hired UNBC's first Co-operative Education student in 1995, and the company and UNBC worked closely in research and teaching. Northwood Inc. merged with Canfor in 1999 and so, while the company itself no longer exists, its legacy will live on at UNBC. Northwood established these awards to recognize those students who have achieved academic excellence and who strive to prepare themselves for exciting careers. These awards will help to perpetuate the legacy of Northwood Inc. as a premiere forest industry leader.

Donor Canfor Corporation

Value \$1,500

Number Two

Eligibility Available to full-time students who have completed at least 30 credit hours of study and have declared a major in Business Administration or Natural Resources Management.

Criteria Academic proficiency and demonstrated financial need.

Note Recipients of these awards are ineligible for receipt of the Canfor Annual Scholarships and Bursaries and vice versa.

Endowed 1993

Northwood Legacy First Nations Scholarship

Northwood Inc. was a top ranked forestry products manufacturer with a rich history in northern British Columbia. Northwood was the first Partner to the University, donating over \$500,000 in 1993, hired UNBC's first Co-operative Education student in 1995, and the company and UNBC worked closely in research and teaching. Northwood Inc. merged with Canfor in 1999 and so, while the company itself no longer exists, its legacy will live on at UNBC. Northwood established these awards to recognize those students who have achieved academic excellence and who strive to prepare themselves for exciting careers. These awards will help to perpetuate the legacy of Northwood Inc. as a premiere forest industry leader.

Donor Canfor Corporation

Value \$1,500

Number One

Eligibility Available to a full-time student who has completed at least 30 credit hours and has declared a major in an undergraduate program in one of the following areas: Natural

Resources Management, Business Administration, or Health; or, be enrolled in one of the following Graduate program areas: Natural Resources Management, Health, or Education. Preference will be given to a First Nations student.

Criteria Academic proficiency.

Note Recipient of this award is ineligible for receipt of the Canfor Annual Scholarships and Bursaries and vice versa.

Endowed 1993

Novak Bros. Contracting Ltd. Scholarship

Donor Novak Bros. Contracting Ltd.

Value \$1,500

Number One

Eligibility Available to a full-time student who is a resident of British Columbia by virtue of birth or five years uninterrupted residence immediately prior to receipt of the award and who has completed less than 90 credit hours in a degree program.

Criteria Academic excellence.

Note No student may receive the Novak Bros. Contracting Ltd. Scholarship more than once.

Endowed 1992

Novak Bros. Contracting Ltd. Bursary

Donor Novak Bros. Contracting Ltd.

Value \$1,000

Number One

Eligibility Available to a full-time student who is a resident of British Columbia by virtue of birth or five years uninterrupted residence immediately prior to receipt of the award and who has completed less than 90 credit hours in a degree program.

Criteria Academic proficiency and demonstrable financial need.

Note No student may receive the Novak Bros. Contracting Ltd. Bursary more than once.

Endowed 1992

The Patrick Walsh Memorial Scholarship

Patrick Walsh was a Founder and Governor of UNBC. He arrived in Fort St. John in 1960 to practice law. His legacy of public service included hospital trustee, school trustee and Chairman, President of the British Columbia Trustee Association, Mayor of Fort St. John and Commissioner of Tumbler Ridge. He served his professional association and the Union of BC Municipalities at the executive level.

Value \$1,000

Number One

Eligibility Available to a full-time student enrolled at UNBC who has completed at least 60 credit hours towards a program with a declared major. The recipient must be a resident of the Peace River-Liard Region by virtue of birth or uninterrupted residence of at least four years prior to beginning current studies at UNBC.

Criteria Demonstrated community service, student leadership and academic proficiency.

Endowed 1996

Peter Bloodoff Memorial Scholarship

In recognition of Peter Bloodoff, Director of Development Services for the City of Prince George, outstanding contribution to the planning profession, the communities in which he lived, and to UNBC, this scholarship was established by his family, friends and colleagues. Peter believed in personal preparedness and balance — “In short, to be a good planner, you first have to be a good person — one who has emotional, physical, intellectual and spiritual harmony within.”

Donor Family, friends and colleagues of Peter Bloodoff

Value \$1,600

Number One

Eligibility Available to a full-time student who has completed at least 90 credit hours towards a degree in the Environmental Science program, majoring in Environmental Planning. Preference will be given to a resident of northern British Columbia who has a demonstrable record of community service, involvement and leadership.

Criteria Academic excellence and community service, involvement or leadership.

Endowed 1997

Prince George Chapter IODE Bursary

The IODE is a Canadian women's charitable organization dedicated to improving the quality of life for children, youth and those in need, through educational, social service and citizenship programs.

Donor The Prince George Chapter IODE

Value \$1,000

Number One

Eligibility Available to a student who has completed at least 90 credit hours towards an undergraduate degree in the Social Science program who has indicated a desire to enter the health care field upon graduation.

Criteria Demonstrated financial need.

Established 1998

Prince George Gyro Club Bursary

One of the objectives of Gyro and the Constitution of Gyro is the awakening and maintenance of interest in public affairs, citizenship, good government, and civic and community affairs. This objective is our reason to be of assistance to a UNBC student.

Donor The Prince George Gyro Club

Value \$500

Number Two

Eligibility Available to full-time students who are Canadian citizens, residents of northern British Columbia by virtue of birth or five years uninterrupted residence immediately prior to the granting of the award who have completed between 30 and 60 credit hours in a Natural Resources Management program.

Criteria Demonstrated financial need.

Endowed 1992

Prince George Medical Society Scholarship

This fund has been established by the members of the Prince George Medical Society who wish to support undergraduate students of the University of Northern British Columbia to attain their full potential as productive members of society by the provision of annual scholarships and bursaries.

Donor Prince George Medical Society

Value \$1,250

Number Variable

Eligibility Available to full-time students undertaking a program of studies in preparation of applying to medical school, who indicate a desire to pursue a career in medicine. Recipients must have completed at least 30 credit hours towards their degree program.

Criteria Academic excellence.

Endowed 1993

Prince George Savings Bursary

Prince George Savings is a local, autonomous provider of financial and related services based on principles of quality, professionalism, and ethics, with regard for its members' needs. This award was established in commemoration of the Prince George Savings 50th anniversary.

Value \$1,500

Number Two

Eligibility Available to a student who has completed at least 30 credit hours towards a degree program within the Faculty of Management who is a resident of northern British Columbia as defined by the UNBC Act. Preference will be given to a dependent relative of a Prince George Savings member.

Criteria Demonstrated financial need.

Endowed 1996

Prince George Savings Scholarship

Prince George Savings is a local, autonomous provider of financial and related services based on principles of quality, professionalism, and ethics, with regard for its members' needs. This award was established in commemoration of the Prince George Savings 50th anniversary.

Value \$2,250

Number One

Eligibility Available to a student who has completed at least 30 credit hours towards a degree program within the Faculty of Management who is a resident of northern British Columbia as defined by the UNBC Act. The candidate will have been a first year UNBC student or a university transfer student from a northern college. Preference will be given to a dependent relative of a Prince George Savings member.

Criteria Academic excellence.

Endowed 1996

Provincial Chapter of BC, IODE Bursary for Nursing

Founded in Canada in 1900, IODE is a volunteer organization of women who participate in areas of citizenship (welcoming new Canadians at citizenship courts), education (providing scholarships and bursaries as well as loans at all levels) and service (providing equipment and supplies to areas of need or

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emergency). IODE is friends working together to make “good things” happen in their communities.

Donor The Provincial Chapter of BC, IODE

Value \$1,000

Number Two

Eligibility Available to a full-time student who is a Canadian citizen and enrolled in the Bachelor of Science in Nursing (Collaborative) program. Preference will be given to a graduate from a college within northern British Columbia.

Criteria Financial need and satisfactory academic standing.

Endowed 1992

PRT Scholarship

Established in 1988 in British Columbia, PRT is currently the largest seedling producer in Canada. Committed to providing the highest quality service and to be innovative within a competitive price structure, the company recognizes that its success rests with the employees’ achievement and personal satisfaction.

Donor Pacific Regeneration Technologies Inc.

Value \$1,000

Number One

Eligibility Available to a full-time student who has completed at least 60 credit hours in a Natural Resources Management degree program with a declared Forestry major and who intends to pursue a career in silviculture or forest nursery.

Criteria Academic excellence.

Note The Faculty of Natural Resources and Environmental Studies will nominate the recipient.

Established 1994

Russell & DuMoulin Annual Scholarship

Russell & DuMoulin understand the importance and value to the community of maintaining and enhancing environmental standards. This is accomplished through the work of Russell & DuMoulin’s legal professionals on behalf of its clients, and also by the firm’s participation in the education of future environmental studies by providing financial support and the opportunity to obtain work experience related to environmental law and regulation.

Value \$3,000

Number One

Eligibility Available to a full-time student who has completed at least 60 credit hours towards a degree in Environmental Studies and has completed the following specific courses: Envs 203 (Environmental Policy) and/or Envs 401 (Environmental Law). The candidate must demonstrate an interest in the area of environmental law and/or policy.

Criteria Academic excellence.

Note Candidates must submit a 200 word essay in the area of environmental law/policy in order to be considered for this award. The College will nominate the recipient.

Sandwell Scholarship

Donor Sandwell Inc.

Value \$1,500

Number One

Eligibility Available to a full-time student who has completed at least 60 credit hours towards a degree in the Natural Resources

Management program, having attended UNBC for the first two or three years of having transferred from a community college in northern BC. Preference will be given to a resident of northern British Columbia.

Criteria Academic excellence.

Note The Faculty will nominate the recipient.

Endowed 1996

Seniors Festival Bursary

The now disbanded Seniors Festival Committee organized the Seniors Festival at the Pacific National Exhibition for a number of years. The PNE has now taken over operations for the Festival. The Seniors Festival Committee wanted their remaining funds to support a deserving UNBC student.

Donor The Seniors Festival Committee

Value \$750

Number Variable

Eligibility Available to a full-time student enrolled in the Faculty of Arts and Sciences who has completed a minimum of 60 credit hours.

Criteria Demonstrated financial need.

Note The recipient of this award may be considered for selection for one additional year only.

Endowed 1996

Silvaram Annual Bursary

Donor Silvaram Holdings Ltd.

Value \$750

Number One

Eligibility Available to a full-time student who has completed at least 60 credit hours towards a degree in Natural Resources and Environmental Studies and who has declared a major in Forestry. The recipient must be a resident of northern British Columbia. Preference will be given to students who are seasonal employees (within the past year) of Silvaram Holdings Ltd.

Criteria Demonstrated financial need and community involvement.

Note No student shall receive this award more than once.

First Award 1996

The Simons Foundation International Education Scholarship

Value \$750 (one semester)

Number One (renewable for up to one additional semester)

Eligibility Available to full-time students who are enrolled in an international exchange program, preferably the Canada-European Student Mobility Program, who have completed at least 30 credit hours of relevant course work.

Criteria Academic proficiency.

Note Should the recipient remain in the international education program for an additional semester, the scholarship may be renewed, subject to the recipient maintaining at least a 3.00 GPA.

Endowed 1996

Society for Canadian Women in Science and Technology (SCWIST) Michael Smith Scholarship

Dr. Michael Smith, 1993 winner of the Nobel Prize in Chemistry, gifted one-quarter of his award to SCWIST. In recognition of his outstanding achievement and generosity SCWIST established this award to provide support and encouragement for women pursuing educational programs in science and related fields.

Donor The Society for Canadian Women in Science and Technology (SCWIST)

Value \$500, plus one year SCWIST membership

Number One

Eligibility Available to a female student who has completed at least 60 credit hours towards a Bachelor of Science degree program.

Criteria Academic excellence with consideration given to career aspirations, community service and personal challenges.

Note The Faculty will nominate the recipient.

Endowed 1995

Student-to-Student Scholarship

The establishment of the Student-to-Student endowed Scholarship fund is a legacy of the spirit and achievement of UNBC students working together for fellow students. The fund will provide support in the form of scholarships to students demonstrating a high level of involvement in UNBC beyond the classroom.

Donor Graduating classes

Value \$500

Number One

Eligibility Available to full-time students enrolled in an undergraduate degree program at UNBC. Candidates must have maintained good academic standing ("B" average or 3.00 GPA). Final selection will be based on each candidate's level of involvement in UNBC beyond the classroom. This involvement includes establishing clubs, membership in clubs or on student or University executive boards, establishing traditions, other voluntary roles within the University, etc.

Criteria Academic proficiency with a minimum GPA of 3.00 and involvement in the UNBC community.

Endowed 1998

Tourism Prince George Bursary

Tourism Prince George is a not-for-profit society, which is mandated to encourage, promote, and market tourism for the Prince George area. With the enormous growth potential of recreational tourism in the area, Tourism Prince George recognizes the future demand for tourism professionals to lead the industry and encourages programs to prepare these individuals. Through fundraising initiatives, Tourism Prince George supports this bursary fund at UNBC.

Donor Tourism Prince George

Value \$500

Number One

Eligibility Available to a full-time student enrolled at UNBC with a declared major in Resource-Based Tourism who has completed a minimum of 60 credit hours. The recipient must be a resident of northern British Columbia by virtue of birth or uninterrupted residence for three years immediately prior to

commencing current studies at UNBC. Preference will be given to a passport member of the BC Association of Tourism Professionals.

Criteria Financial need and satisfactory academic standing.

Established 1997

UNBC In-Course Scholarships

Value \$750

Number Varies

Eligibility Available to full-time students enrolled in a degree program at UNBC.

Criteria Academic excellence

Note: Recipients may not normally be in receipt of another UNBC scholarship.

van Adrichem Undergraduate Summer Research Bursary

The intent of the van Adrichem Undergraduate Summer Research Bursary is to provide financial support to a third or fourth year undergraduate student pursuing summer research projects. Mr. van Adrichem believes that giving the students the opportunity to experience research at the undergraduate level will enhance their education and spark a lifetime interest in research, increasing the likelihood of continuing on with research at the graduate level.

Micheal van Adrichem was an active horticultural researcher in northern British Columbia. He spent fifteen years in the Prince George research branch of the Federal Department of Agriculture, where his main emphasis was on the winter hardiness of raspberries. This award, the first endowed undergraduate research bursary at UNBC, will assist in the enhancement of knowledge about plant biological processes in the north.

Value TBA

Number One

Eligibility Available to a full-time student who is enrolled in third or fourth year in a program within the Faculty of Natural Resources and Environmental Studies. Preference will be given to students doing applied research with a focus on northern plants during the summer immediately following the granting of the award, or by demonstrating a strong case for alternative timing.

Criteria Academic proficiency with a minimum GPA of 3.00, financial need.

Note Selection of the recipient will be made on the recommendation of the Faculty of Natural Resources and Environmental Studies, inclusive of the Chair of Biology and chaired by the Associate Vice President Research.

Established 1999

Vancouver International Airport Authority Annual Scholarship

The Authority has established this annual scholarship to reward those students from British Columbia who have achieved academic excellence. Through the establishment of this scholarship, the Authority offers its support to British Columbia students.

Donor The Vancouver International Airport Authority

Value \$2,000

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Number One

Eligibility Available to a student who has completed at least 60 credit hours towards a declared major in one of the following programs of study: International Business, Marketing, Environmental Planning, Geography, International Studies, Resource Recreation Tourism, or Resource-Based Tourism.

Preference will be given to residents of British Columbia by virtue of birth or uninterrupted residence for four years immediately preceding the commencement of current studies at UNBC. The candidate will be a Canadian citizen.

Criteria Academic excellence, demonstrated community involvement through voluntary or other activities. In case of a tie, the scholarship will be awarded to the candidate with superior academic achievement.

Note Candidates must submit two letters of references: one from an individual who is familiar with the applicant's academic and one from an individual who is familiar with the applicant's work or volunteer background. Candidates must also submit a short essay (not more than 500 words) stating the applicant's academic goals, career aspirations and interest in the Authority Scholarship.

Established 1998

Vancouver Port Authority Annual Scholarship

The Vancouver Port Authority has supported an annual scholarship program aimed at the secondary and post-secondary levels for many years. This program is the Vancouver Port Authority's investment in today's youth and tomorrow's knowledgeable and professional work force.

Donor Vancouver Port Authority

Value \$2,500

Number One

Eligibility Available to a full-time student who has completed at least 60 credit hours towards a degree in the Faculty of Natural Resources and Environmental Studies with a declared major in Environmental Studies/Sciences.

Criteria Academic excellence.

Note The Faculty will nominate the recipient.

Established 1997

Vernon C Brink Scholarship for the Study of Biological Diversity

Bert Brink has devoted his life to conserving and promoting our natural environment. As both a university professor and a professional, Dr. Brink's dedication in the study and understanding of biodiversity and sustainable development has taught many about the need for sound management of our renewable resources. A professor emeritus, Faculty of Agriculture Science, University of British Columbia, he is a recipient of numerous awards from wildlife, nature and conservation groups in recognition of his outstanding accomplishments as a teacher, scientist, and naturalist.

Donor Friends and colleagues of Dr. Brink and supporters of UNBC, including Environment Canada and the Ministry of Environments, Lands and Parks.

Value \$1,250

Number Variable

Eligibility Available to a full-time student who has completed at least 60 credit hours in a degree program offered by the Faculty of Natural Resources and Environmental Studies.

Criteria Academic excellence and demonstrated interest in the study of biological diversity, environmental conservation, and sustainable use of natural resources. Demonstrated financial need may be a consideration.

Note The Faculty will nominate the recipients.

Endowed 1993

Weldwood Bursary

Weldwood of Canada is committed to responsible and progressive forest practices, natural resource management and excellence in business management. Weldwood relies on the efforts of people in many communities in BC and Alberta to achieve its goals. Accordingly, the intent of the Weldwood Bursary is to support students in the communities where the company has operations and who have an interest in studies in Natural Resources, Science or Business.

Donor Weldwood of Canada Limited

Value \$2,500

Number Two

Eligibility Available to full-time students who are residents of 100 Mile House, Williams Lake, Quesnel, Burns Lake, Decker Lake and Houston, British Columbia; Hinton, Sundre and Rocky Mountain House, Alberta or communities adjacent to those named. Candidates will be majoring in a Science, Natural Resources or Business program.

Criteria Satisfactory academic standing and financial need.

Endowed 1999

Weldwood Scholarship

Donor Weldwood of Canada Limited

Value \$2,500

Number One, renewable for one year

Eligibility Available each year to full-time students who have completed at least 60 credit hours towards a degree in the Natural Resources Management program and who, in the opinion of the Faculty, show aptitude for a career within the Natural Resources Management field. Preference for one scholarship will be given to a student with a declared major in Forestry.

Criteria Academic proficiency.

Conditions Renewable for up to one year on the condition that the recipients maintain a minimum GPA of 2.67 in the previous year. Should additional scholarship(s) become available due to the recipient(s) failure to meet the renewal conditions, the additional scholarship(s) will be made available to fourth year students who meet the eligibility requirements and criteria outlined above.

Note The Faculty of Natural Resources and Environmental Studies will nominate the recipients.

Endowed 1995

Westcoast Energy Bursary

Donor Westcoast Energy Inc.

Value \$1,250

Number Two

Eligibility Available to a full-time student who has completed between 60 and 90 credit hours towards a degree program who is a resident of northern British Columbia as defined by the UNBC Act. Preference will be given to a candidate who has attended

UNBC for the first two or three years or who has transferred to the University from a regional community college in northern British Columbia. Preference will be given to a First Nations student.

Criteria Demonstrated financial need.

Endowed 1995

Westcoast Energy Scholarship

Donor Westcoast Energy Inc.

Value \$2,500

Number Two

Eligibility Available to a full-time student who has completed between 60 and 90 credit hours towards a degree program who is a resident of northern British Columbia as defined by the UNBC Act. Preference will be given to a candidate who has attended UNBC during the first two or three years or who has transferred to the University from a regional college in northern British Columbia. Preference will be given to a student enrolled within the Faculty of Management.

Criteria Academic Excellence.

Endowed 1995

William Dow Ferry Scholarship

William Ferry, whose family moved to Prince George when he was six, was the Founding President, in 1938, of Prince George's Junior Chamber of Commerce. He served on the Hospital Board from 1949 to 1961, and was elected to City Council four times between 1950 and 1955, at the head of the poll. Judge Ferry practiced law in Prince George from 1949 — he was junior council to John Diefenbaker in a celebrated 1951 trial — until 1961, when he was appointed Judge of the County Court of Cariboo, requiring a move to Williams Lake. In 1983 he retired in north Vancouver with his wife, Geraldine.

Donor Judge William Dow Ferry

Value \$1,000

Number One, renewable up to one year

Eligibility Available to a full-time student who has completed between 60 and 90 credit hours, with a declared major in Political Science. Preference will be given to a resident of northern British Columbia.

Criteria Academic excellence.

Note This scholarship is renewable at \$1,500 for up to one year, subject to the recipient maintaining good academic proficiency.

Endowed 1997

Wilson King Annual Scholarships

Donor Wilson King and Co.

Value \$1,000

Number Two

Eligibility Available to full-time undergraduate students who are residents of northern British Columbia by virtue of birth or three years uninterrupted residence immediately prior to the granting of the award.

Criteria Academic excellence.

Established 1994

Women's Equality Bursary

Donor Ministry of Women's Equality

Value \$500

Number Two

Eligibility Available to full or part-time female students who are enrolled in women's studies or in fields in which women have not traditionally sought post-secondary training.

Criteria Academic excellence and demonstrated financial need.

First Award 1994

5. Open Awards

These awards may be available to all categories of students including: new post-secondary, transfer, in-course, and graduate.

AirBC Annual Travel Awards



Donor AirBC

Value Confirmed air space for a maximum of two return fares per academic year

Number 10

Eligibility The AirBC Annual Travel Awards will be awarded to recipients of the University's most prestigious conventional scholarships.

Criteria academic excellence.

Note No application is required

Established 1996

Beta Sigma Phi Bursary

Beta Sigma Phi City Council, Prince George Chapter, invited all BC Chapters under the Beta Sigma Phi umbrella to establish a student award with UNBC. Following the association's motto of life, learning, friendship, several BC Chapters continue to support this initiative.

Donor BC Chapters of Beta Sigma Phi

Value \$1,500

Number One

Eligibility Available to a student enrolled in a minimum six credit hours per semester at UNBC. The recipient will be a member of a Beta Sigma Phi Chapter or the immediate family member of such a sorority member. Recipient will be a Canadian citizen with preference given to a permanent resident of BC.

Criteria Demonstrated financial need and academic proficiency.

Note Provide name of active sorority member, sorority chapter and location.

Endowed 1995

Bill Reid Award

Bill Reid has been described as the individual who has “single-handedly revived the art of the Haida people.” For many years, Bill Reid has dreamed of helping the northwest coast return to the glory of its artistic past. To bring reality to this vision, friends have established this award.

Donor Supporters of northwestern arts

Value TBA

Number One

Eligibility Available to a full-time student, teacher or professor at or associated with the University of Northern British Columbia.

Criteria Demonstrated high level of academic and social excellence. A project or program proposal must be submitted to the University and fund directors. Evaluations will be based on the potential to promote, preserve, or present the performing, verbal or visual arts of the northwest coast aboriginal peoples of British Columbia.

Note The awards shall, as and where appropriate, alternate each year in support of a performing, verbal or visual arts project or program. The first award was made in 1995. The recipient may re-apply for the award for up to a maximum of three years. The deadline to apply for this award is April 1.

Established 1993

Birks Family Foundation Annual Bursary

The Birks Family Foundation was formed in 1961 by Henry Birks & Sons Limited and several members of the Birks Family. One of its goals is to provide bursaries to needy and deserving students pursuing post-secondary studies. This bursary is available to full-time students pursuing an academic degree in any faculty. The Foundation wishes to lend its support to students who will make positive contributions to society if given the opportunity to complete their studies.

Donor The Birks Family Foundation

Value \$1,000

Number One

Eligibility Available to a full-time student enrolled in any degree program at UNBC.

Criteria Demonstrated financial need.

Established 1999

Cora Donald Bursary

The BC Tel Pioneers are a non-profit organization of active and retired employees in the telecommunications industry. This bursary has been established in memory of the first Prince George chief telephone operator.

Donor The BC Tel Pioneers

Value \$1,000

Number One

Eligibility Available to a full-time undergraduate or graduate student. Preference will be given to a candidate who indicates a career path in the telecommunications field.

Criteria Academic proficiency and demonstrated community/volunteer service in the Prince George Community.

Note Subject to passing grades, the same student may apply for this award more than once.

Endowed 1999

Daphne Anderson Memorial Prize

Daphne Anderson (1939-1977) was the first teacher of Sm'algayax (Coast Tsimshian) in a public school. This was one of the first examples of the education system's involvement in the revitalization of First Nations languages. This prize will provide the opportunity to develop new initiatives in the area pioneered by Mrs. Anderson.

Donor Established by Mrs. Anderson's extended family and friends.

Value TBA

Number One

Eligibility Available upon application or nomination to individuals or groups who have contributed to the well being of one of the First Nations languages within the UNBC region served by the College of New Caledonia, the Northern Lights Community College and the Northwest Community College.

Criteria This prize will be based on individual achievement, community activities, and/or published studies or curriculum materials that contribute to a First Nations language well being. Selection will be based on the committee's assessment of the degree to which each submission demonstrates originality, excellence, and impact on one or more languages of the region.

Note The selection committee will consist of a UNBC First Nations program faculty member, a member of the Senate Committee on First Nations, and a designate of the extended family of the late Daphne Anderson.

Endowed 1998

E.G. (Robbie) Robertson Bursary

The North Central Seniors Association is open to all seniors aged 50 and over and promotes activities and support for its members, as well as public awareness and information. This bursary has been established to recognize the contribution of E.G. (Robbie) Robertson, one of the founders of the North Central Seniors Association.

Donor The North Central Seniors Association

Value \$500

Number One

Eligibility Available to a full-time or part-time student at UNBC. Preference will be given to student who has demonstrated community/volunteer service in the Prince George community.

Criteria Demonstrated financial need..

Established 1999

Eileen Williston Bursary

This Bursary has been established by Ray Williston and the Quintessential Literary Group to which Eileen belonged for many years. The Bursary will be awarded to a mature woman student planning or furthering a career in creative writing or journalism.

Donor: Ray Williston and the Quintessential Literary Group

Value \$1,000

Number One

Eligibility Available to a full-time student enrolled and majoring in the English program or other programs related to careers in creative writing or journalism. Preference will be given to mature women students.

Criteria Demonstrated financial need and satisfactory academic standing.

Endowed 1999

Elizabeth Kellie Chapter, IODE – Josephine Swann Bursary

Mrs. Carrie Crawley established this tribute in memory of her mother, Mrs. Josephine Swann. Mrs. Swann was a life-long member of IODE who, along with Mary Martin, established the Elizabeth Kellie Chapter and upheld the mission statement of IODE to improve the quality of life for her children, youth and those in need, through educational, social service and citizenship programs.

Donor Mrs. Carrie Crawley

Value \$1,500

Number One

Eligibility Available to a full-time student who is a Canadian citizen and enrolled in an Arts and Science or Health and Human Science program. Preference will be given to a graduate of a northern BC high school.

Criteria Satisfactory academic standing and financial need. Demonstrated leadership qualities by participation in activities such as Canadian heritage, volunteering, sports, and community service.

Endowed 1995

Gary Johnson Endowed Memorial Bursary Fund

Gary Johnson was the proud owner of Lovelle Logging Ltd. and a longtime logging contractor in the Prince George area. Gary started in business in the mid-1970's, logging for Silva-Can at Lovell Cove, Rustad in the Bowron and finally Northwood around Prince George. One of his final requests was to establish an award at UNBC that would help ensure students of the region had every opportunity to attain a university education in forestry and move on to play a role in the industry. The Gary Johnson Endowed Memorial Bursary will be a legacy of this respected businessman and will support many students in financial need for years to come.

Value \$1,250

Number One

Eligibility Candidates must meet UNBC admission, enrolment and full-time attendance requirements. Students will be residents of the Prince George area (School District #57) for four years prior to enrolling in UNBC. Students will be enrolled and majoring in the Forestry Program.

Criteria Academic proficiency. Final selection will be based on financial need.

Endowed 1999

Industrial Forestry Service Ltd. Bursary

Established in 1952, based in Prince George, BC, the employee-owned Industrial Forestry Service Ltd. has grown with the forest industry to become a leading forestry consulting firm. IFS recognizes the benefits of providing motivated individuals with opportunities and challenges, and hopes to participate in the development of future skilled and innovative leaders through the awarding of this bursary.

Donor Industrial Forestry Service

Value \$500

Number One

Eligibility Available to a full-time student who is a resident of northern British Columbia who is enrolled in the Faculty of Natural Resources and Environmental Studies, focusing on Forestry.

Criteria Financial need and academic proficiency.

Established 1997

Jessie Craig Bursary

Jessie Craig was pleased with the government's decision to establish the University of Northern British Columbia. A member of IODE for many years, she advocated IODE's decision to establish a bursary for UNBC.

Donor Mrs. Linda Naismith and Mr. Richard Craig in memoriam to their mother, Mrs. Jessie Craig, and the Martlet Chapter IODE.

Value \$500

Number One

Eligibility Available to a female student enrolled in a program of Women's Studies with a demonstrated interest in women's issues.

Criteria Demonstrated financial need and community involvement through volunteering.

Conditions Tenable upon confirmation of enrolment in the Women's Studies program at UNBC in the semester immediately following the granting of the award.

Endowed 1993

Louis & Irene Monasch and Family Bursary

Louis B. had many interests — foremost among them were electrical engineering, education and music. He worked with several youth groups, Scouts, Job's Daughters and DeMolay. The idea of a university in northern BC came up in a campfire discussion while tenting north of Prince George, 35 years ago. As an instructor and administrator, he felt it was necessary to have colleges and a university in the north, in a populated area with employment opportunities, thereby making education more accessible for northern students. The family motto: "As long as you are learning, you are living."

Donor Mrs. Irene Monasch

Value 1,000

Number One

Eligibility Available to a full-time student pursuing a degree program at UNBC.

Criteria Demonstrated financial need.

Max and Violet Enemark Bursary

Mr. Max Enemark's life and work ethics are captured by the following excerpt from *The Second Mile* by David Schellenberg:

*"Whosoever shall compel you that you walk with him one mile
Duty turns to pleasure when you walk the second mile
They are proven words of wisdom that have stood the acid test
By not skimping in your efforts but by doing your level best
You will learn the joy of doing and that life can be worthwhile
Doing more than was expected as you walk the second mile."*

To commemorate their life together, Mrs. Violet Enemark established this award. The bursary also recognizes Mr. Enemark's dream of going to university and the help it may provide others to realize that dream.

Donor Mrs. Violet Enemark

FINANCIAL AID

Value \$1,000

Number One

Eligibility Available to a full-time student enrolled in the Faculty of Health and Human Sciences. The recipient will be a resident of British Columbia by virtue of birth or four years of consecutive residency immediately prior to receiving the award. Preference will be given to students who can demonstrate community/volunteer involvement.

Criteria Academic proficiency

Endowed 1999

Neil & Amelia Peterson Bursary

Neil and Amelia Peterson, long time residents of Prince George, have always been aware of the high cost of education, and are proud to be able to reduce the financial burden of northern British Columbia students.

Donor Neil and Amelia Peterson

Value \$1,000

Number One

Eligibility Available to a full-time student enrolled in an undergraduate degree program at UNBC. Preference will be given to a resident of northern British Columbia as defined by the UNBC Act.

Criteria Demonstrated financial need. Final selection will be made on the basis of greatest financial need.

Endowed 1998

Northern Collegiate Rugby Society Annual Award

This award is intended to aid in the recruitment of new students to UNBC to play for the UNBC RFC. The recipient of the award will have demonstrated leadership on and off the field, dedication to the sport and will be in good standing with the Rugby Club.

Value \$500

Number One

Eligibility Available to a full-time student at UNBC. Candidates must be in good standing with the Rugby Club. Preference will be given to a recipient reasonably demonstrating financial need.

Criteria Satisfactory academic standing.

Note Candidates must submit written rationale for their nomination, demonstrating their leadership abilities and dedication to the sport. A letter of recommendation from the applicant's coach and/or club coach should be included. Selection will be based on the recommendations of the Northern Collegiate Rugby Society.

Phillips, Hager and North Investment Management Ltd. Bursary

Established in 1965, Phillips, Hager and North Investment Management Ltd. is one of Canada's oldest and largest independent investment management firms. Based in Vancouver, with institutional office in Toronto, Phillips, Hager and North Investment Management Ltd. has a strong affiliation with British Columbia, its communities and educational institutions.

Donor Phillips, Hager and North Investment Management Ltd.

Value \$1,000

Number One

Eligibility Available to a full-time student enrolled in an undergraduate degree program at UNBC.

Criteria Demonstrated financial need. Final selection will be made on the basis of greatest financial need.

Endowed 1998

Prince George and District Dental Society Bursary

Donor Prince George and District Dental Society

Value \$1,000

Number One

Eligibility Available to a full-time student who was born in and/or has lived continuously for four years, immediately prior to attending UNBC, within the Prince George and District Dental Society's region, as defined by the 1995 boundaries of Alberta border west to Burns Lake, south from Mackenzie to 100 Mile House.

Criteria Satisfactory academic standing and demonstrated financial need.

Note Students may receive this award more than once.

Endowed 1995

Prince George Elks Lodge #122 and the Order of the Royal Purple #48 Bursaries

Established as the very first full award (scholarship or bursary) with UNBC, the memberships of these two orders showed considerable insight and were proactive on behalf of future students at UNBC.

Donor Prince George Elks Lodge #122 and the Order of the Royal Purple #48

Value \$1,500, renewable for three years

Number Two

Eligibility First preference will be given to hearing impaired students. In the absence of eligible candidates, preference will be given to speech impaired or sight impaired students who will receive the award until graduation or until a hearing-impaired student is admitted. Should no sensory impaired students be eligible, physically challenged students will be considered until graduation or until a hearing impaired student is admitted. If no students are eligible, the monies have been awarded will be utilized to purchase specialized equipment to facilitate the education of hearing impaired students.

Criteria Satisfactory academic standing.

Note This bursary is renewable subject to the recipients earning a 2.0 grade in all courses.

Endowed 1992

Rogers Sugar Bursary

Rogers Sugar maintains that all qualified individuals should have the opportunity to pursue university educational opportunities. The intent of the fund is to encourage and financially support ambitious students, showing leadership and/or initiative within their community, in their pursuit of a UNBC degree program.

Value \$2,500

Number One

Eligibility Available to a full-time student pursuing an undergraduate degree at UNBC.

Criteria Demonstrated financial need and community involvement.

Rotary Clubs of BC Scholarship

The Prince George Rotary and the Prince George-Nechako Rotary Clubs got behind their slogan “Real Happiness is Helping Others” and established an endowment to financially assist students attending UNBC. These two then challenged other BC Rotary Clubs to support this worthy appeal and each year this fund continues to grow as clubs respond.

Donor BC Rotary Clubs

Value \$1,500 per annum, renewable for three consecutive years

Number Varies

Eligibility Available to a full-time student pursuing an undergraduate degree who is a resident of British Columbia by virtue of birth or five years consecutive residence immediately prior to first receipt of the award. Preference will be given to a resident of northern British Columbia.

Criteria Demonstrated community service and academic excellence.

Note This scholarship is renewable subject to the recipient earning a 2.0 grade in all courses. The recipient is required to attend one Rotary meeting.

Endowed 1993

Rotary Clubs of BC Bursary

The Prince George Rotary and the Prince George-Nechako Rotary Clubs got behind their slogan “Real Happiness is Helping Others” and established an endowment to financially assist students attending UNBC. These two then challenged other BC Rotary Clubs to support this worthy appeal and each year this fund continues to grow as clubs respond.

Donor BC Rotary Clubs

Value \$1,000 per annum, renewable for three consecutive years.

Number Varies

Eligibility Available to a full-time student pursuing an undergraduate degree who is a resident of British Columbia by virtue of birth or five years consecutive residence immediately prior to first receipt of the award. Preference will be given to a resident of northern British Columbia.

Criteria Demonstrated community service, financial need, and academic proficiency.

Note This bursary is renewable subject to the recipient earning a 2.0 grade in all courses. The recipient is required to attend one Rotary meeting.

Endowed 1993

Scotiabank Bursary

Donor Scotiabank

Value \$1,000

Number One

Eligibility Available to students who are residents of one of the following northern British Columbia communities: Prince George, Prince Rupert, Terrace, Smithers, Quesnel, Fort St. John, Fort Nelson, Mackenzie, and Dawson Creek, by virtue of birth or uninterrupted residency for four years immediately prior to commencing current studies at UNBC. Preference will be given to non-traditional or special needs students (i.e. single parents, mature students, part-time students, physically challenged or learning disabled).

Criteria Demonstrated financial need.

Endowed 1997

ScotiaBank Scholarship

Value \$1,500

Number One

Eligibility Available to a full-time student who is a resident of one of the northern British Columbia communities of Prince George, Prince Rupert, Terrace, Smithers, Quesnel, Fort St. John, Fort Nelson, Mackenzie or Dawson Creek, by virtue of birth or uninterrupted residency for four years immediately prior to commencing current studies at UNBC. The scholarship will be awarded to a student enrolled within the Faculty of Management.

Criteria Academic excellence.

Endowed 1996

ScotiaMcLeod Matching Grant

ScotiaMcLeod has worked with Canadians for more than 75 years to help them achieve their financial security. Building on a heritage of integrity and innovation, the company has earned its clients’ confidence and trust. ScotiaMcLeod is one of Canada’s leading full-service investment dealers, serving clients through more than 70 branches across the country.

Donor ScotiaMcLeod Inc.

Value Up to 50% of tuition and books

Number Variable

Eligibility Available to full-time students who reasonably demonstrate that they have personally earned the monies being applied towards their tuition and books. Preference will be given to candidates who have earned and contributed the most money and still have the greatest financial need. Preference will be given to candidates who are residents of northern British Columbia, as defined by the UNBC Act.

Criteria Academic proficiency and financial need.

Note Students may apply for and receive this award more than once.

Endowed 1999

Shoppers Drug Mart/Imasco Bursary

Shoppers Drug Mart/Imasco recognizes that our companies’ successes are directly linked to community viability. Imasco believes the most constructive way to show appreciation is by supporting initiatives that strengthen these communities. We are pleased to recognize northern students for their commitment to their communities by offering this bursary.

Donor Shoppers Drug Mart/Imasco

Value \$1,000

Number Varies

Eligibility Available to a full-time student enrolled at UNBC.

Criteria Satisfactory academic standing and demonstrated financial need.

Endowed 1999

Shoppers Drug Mart/Imasco Community Involvement Bursary

Shoppers Drug Mart/Imasco recognizes that our companies’ successes are directly linked to community viability. Imasco believes the most constructive way to show appreciation is by supporting initiatives that strengthen these communities. We are pleased to recognize northern students for their commitment to their communities by offering this bursary.

FINANCIAL AID

Donor Shoppers Drug Mart/Imasco

Value \$2,500

Number One

Eligibility Available to a full-time student at UNBC. Preference will be given to candidates who are graduates of northern high schools (as defined in the University Act) who can reasonably demonstrate a record of community service, involvement and leadership. Should more than one student satisfy the above criteria, final selection will be made on the basis of greatest financial need.

Criteria Academic proficiency and demonstrated financial need.

Endowed 1999

Simons Foundation Bursaries for Single Mothers

The intent of the Simons Foundation Bursary Fund is to recognize and financially support promising and ambitious single mothers determined to pursue university educational opportunities. Single mothers and their children form the largest group living in poverty and it is the intent of the Foundation to provide opportunities for them to complete their education and raise their standards of living.

Donor The Simons Foundation

Value \$750

Number Variable

Eligibility Available to full-time female single parents, whose children are enrolled in the UNBC Daycare.

Criteria Demonstrated financial need.

Endowed 1996

The Steadman Family Matching Grant

This bursary was established by Tom and Linda Steadman — entrepreneurial partners in Prince George business — to help those whose personal efforts, like their own, contributed towards their success. Tom Steadman was a founding advocate of the University, a Founder of the Interior University Society, Member of the Implementation Planning Group and the Interim Governing Council. He also chaired UNBC's North to the Future Campaign and the University of Northern British Columbia Foundation.

Value Up to 50% of tuition and books

Number Variable

Eligibility Available to full-time students enrolled in an undergraduate degree program at UNBC. Candidates must reasonably demonstrate that they have personally earned the monies being applied towards their tuition and books for the upcoming academic year. Preference will be given to residents of northern British Columbia.

Criteria Demonstrated financial need and academic proficiency.

Note Students may apply for and receive this award more than once.

Endowed 1993

TD Bank Higher Education Awards Program

Donor TD Bank

Value Up to 50% of tuition per term

Number Variable

Eligibility Available to full or part-time students who qualify to the Canadian Resident Tuition Fee Structure.

Criteria Academic proficiency and demonstrated financial need.

Note Recipients may receive this award more than once.

Endowed 1998

UNBC Athletic Awards

Value \$500

Number Ten

Eligibility Available to full-time students enrolled in a degree program at UNBC participating on a varsity team.

Criteria Recipients must meet UNBC admission, enrolment and full-time attendance requirements. Final selection will be based on the student's contribution to the athletic team.

Note No application is required. The Athletic co-ordinator and coaching staff will select the recipients.

Established 1998

6. Part-time Student Awards

Students who are registered in and attempt less than nine credit hours per semester are eligible for these awards.

E.G. (Robbie) Robertson Bursary

The North Central Seniors Association is open to all seniors aged 50 and over and promotes activities and support for its members, as well as public awareness and information. This bursary has been established to recognize the contribution of E.G. (Robbie) Robertson, one of the founders of the North Central Seniors Association.

Donor The North Central Seniors Association

Value \$500

Number One

Eligibility Available to a full-time or part-time student at UNBC. Preference will be given to a student who has demonstrated volunteer/community service within the Prince George Region.

Criteria Demonstrated financial need.

Established 1999

UNBC Part-time Undergraduate Scholarships

Donor The University of Northern British Columbia

Value \$300

Number Variable

Eligibility Available to part-time students who have enrolled in less than nine credit hours each semester. Part-time students will be considered for this scholarship at 15 credit hour intervals. Thus, upon completion of 15 credit hours, 30 credit hours, 45 credit hours, etc., the students' GPA on the most recently completed 15 credit hour block will be tabulated. These part-time scholarships will be offered at the beginning of each semester.

Criteria Academic excellence.

Conditions Tenable upon confirmation of part-time enrolment at the University of Northern British Columbia in the semester immediately following the granting of the award.

Established 1994

Weekend University Bursaries

The Vancouver Foundation has established these bursaries to provide financial assistance to those First Nations students enrolled in the Weekend University and are committed to obtaining a university degree. UNBC is most grateful also for the strong founding support of the Vancouver Foundation, one of the University's first partners. The Vancouver Foundation is Canada's largest community foundation. It administers some 655 endowment funds with a total capital of over \$560 million (per 1998 annual report), and distributes some \$24 million a year to community organizations in British Columbia.

Value Variable

Number Varies

Eligibility Available to student enrolled in the UNBC Weekend University delivered in partnership with Cariboo Tribal Council and the University College of the Cariboo.

Criteria Academic proficiency and financial need.

Note Selection will be done by a committee which may consist of representatives from organizations as follows: The University of Northern British Columbia, the Cariboo Tribal Council, the University College of the Cariboo, other Tribal Councils of the Cariboo-Chilcotin region, and members at large of the Weekend University Coordinating Council.

see also:

TD Bank Higher Education Awards under Open Awards
Women's Equality Bursary under In-course Awards

7. Externally-administered Awards

Selection for these awards is made independent of the UNBC Awards office. Separate application forms may be required.

BC Hydro Scholarships

Donor BC Hydro

Value \$1,000

Number Four

Eligibility Available to full-time students continuing programs of study relevant to BC Hydro's business.

Criteria Academic proficiency with a minimum 2.67 annual GPA, good written communication skills, demonstrated innovation, and commitment to the protection of the environment and the efficient and safe use of electricity.

Note Applications, including transcripts and reference letters, should be sent directly to BC Hydro by January 13 each year.

First Award 1994

Credit Union – Forest Renewal BC Bursary Program

Donor Forest Renewal BC and Credit Union Central of British Columbia

Value \$1,000

Number Varies

Eligibility Available to a graduating grade 12 student or first, second, or third year post-secondary student studying forestry or a forestry-related subject at a post-secondary institution in BC.

Criteria Selection will be based on the submission of a typewritten essay, approximately 500 to 1000 words in length,

explaining innovative ideas for BC's forest management and sustainability. Topics may include: silviculture; restoration and protection of the forest environment; forest production; value-added processes to create more jobs from each tree cut; and ways to preserve forest resources while enhancing their contribution to the economies of communities throughout British Columbia. Essays will be judged on originality of ideas, analysis of issues, knowledge of Forest Renewal BC mandate and forest sustainability issues, and ability to communicate ideas.

Conditions Application forms may be obtained from any credit union or Forest Renewal BC Regional Office. Applications must be sent directly to Forest Renewal BC no later than April 2.

Fort St. John Friendship Society – UNBC Bursary

Bursaries will be awarded by the Fort St. John Friendship Society to First Nations Students attending the UNBC-Fort St. John Campus.

Donor The Fort St. John Friendship Society

Value up to \$500

Number Variable

Eligibility The bursary(ies) will be awarded to First Nations adult learners. Applicants must be 19 years or older and be a member of the Fort St. John Friendship Society, currently enrolled at the UNBC-Fort St. John campus.

Criteria Applicants will provide background on their community involvement. Selection will be based on need rather than academic standing.

Conditions Applications will be sent directly to the Fort St. John Friendship Society no later than April 1. Amount and value of the award(s) will be determined on a yearly basis.

Established 1997

Helen Thurwell Scholarship

Donor Mr. and Mrs. Vernon Forster

Value \$5,000 per annum, renewable for up to three years.

Number One

Eligibility Available to a full-time female student who is a graduate of the Chatelech Secondary school. Nominations will be made by the faculty of the Chatelech Secondary school in consultation with the School District.

Criteria Academic excellence.

Note This scholarship may be renewed for three years subject to the recipient maintaining satisfactory academic standing.

Endowed 1992

Houston Scholarship

The Houston Scholarship has been generated by the citizens of Houston, BC through fundraising efforts under the leadership of the Houston and District Chamber of Commerce.

Donor Citizens of Houston and District

Value Variable

Number One

Eligibility Available to a full-time student beginning a degree program at UNBC who is a permanent resident of Canada, a graduate of Houston Senior Secondary School, and who has been a resident of Houston for at least two consecutive years immediately prior to commencing study at UNBC.

FINANCIAL AID

Criteria Academic proficiency, demonstrated record of community involvement and/or volunteerism in clubs and organizations and sporting activities.

Note Applications should be made directly to the Houston and District Chamber of Commerce.

Endowed 1995

Rotary Club of Gibsons Jim Ling and Michael Cruise Scholarships

These awards were established through the support of the Rotary Club of Gibsons and Mr. & Mrs. Michael Cruise. Jim Ling: a dedicated Rotarian who was instrumental in establishing a strong Rotary Youth base in Gibsons as well as initiating Interact Clubs in District 5040 during 1996. Michael Cruise: District Governor of the Rotary District 5040 in 1995-1996 who extended Rotary ideals to the family and to young people during his term in office.

Donor The Rotary Club of Gibsons and Mr. & Mrs. Michael Cruise

Value \$2,000 - \$2,500

Number Two, with the possibility of being renewable for one year

Eligibility One award with preference given to a Rotaract member from Gibsons area and one award with preference given to a former Interact member from Elphinstone High School going directly to UNBC. Preference will also be given to a student enrolled in a Bachelor of Science program working toward a degree in Forestry, Environmental Studies, Social Studies or Natural Resources Management. In the event that none of the above criteria can be met, preference will be given to students from Elphinstone High School.

Criteria Academic excellence.

Conditions Applications are made directly to the Rotary Club of Gibsons Scholarship committee who, along with teaching staff from Elphinstone High School, will make the selections and inform UNBC of those choices. UNBC will make the final selection in conformity with UNBC admission policy and academic requirements. The awards recipients are expected to attend three Rotary Club meetings each year of the scholarship award.

Note These scholarships may be renewable for one additional year subject to the recipients earning a 3.00 GPA. To be considered for a renewed scholarship, the recipient must re-apply for the award.

Endowed 1996

van Adrichem Family Bursary

The van Adrichem family came to Prince George in 1962. Their eight children graduated from O'Grady Catholic High School. Mr. van Adrichem has been actively involved in education for some 25 years.

Donor Mr. and Mrs. Michael van Adrichem and Family

Value \$500

Number One

Eligibility Available to a student graduating from O'Grady Catholic High School.

Criteria Satisfactory academic standing and demonstrated financial need.

Note Nominations will be made by the O'Grady Awards Committee.

Endowed 1994

■ III. Financial Aid

Government Full-time Student Loans

Students may borrow money in the form of a government student loan on a promise to repay the loan at a specified time in the future.

Government student loans are available to students who can demonstrate financial need. Therefore, funds are only loaned to students whose financial resources from parents, summer employment, part-time work and other sources do not cover the estimated cost of their education.

Canada Student Loans, a federal program, and British Columbia Student Loans, a provincial program, both provide interest-free loans for full-time students who are Canadian citizens or permanent residents.

BC Grants

Some students who are in their first or second year of studies may qualify for BC Grant funding. Students with dependants may also be eligible for a Canada Study Grant for Students with Dependants.

Canada Millennium Scholarships – General Awards

Beginning in January 2000, and continuing for ten years thereafter, the Canada Millennium Scholarship Foundation will distribute scholarships each year to post-secondary students in British Columbia. Each of these awards will range between \$2,000 and \$6,000 according to students' financial need. The Foundation's General Awards are non-repayable and will be given to students in greatest need while needier students will receive higher amounts.

All full-time post-secondary students who are eligible for student assistance in the Province of British Columbia are eligible for the Foundation's General Awards. Students automatically apply for a General Award when applying for a British Columbia student loan.

Eligibility

To be eligible for BC funding, students must be residents of British Columbia as defined by established governmental criteria. Assistance will be provided to eligible students who will be enrolled in a minimum 60% or nine credit hours of a full program of studies each semester, or be enrolled as full-time graduate students.

Application

Application for loans and grants as described above is made through a single application form, available from the Ministry of Advanced Education, Training and Technology (1-800-561-1818), or from any college or university. Students may apply for loans before they have been

accepted at the educational institution of their choice. In order for funding to be in place at the onset of Fall classes, it is advisable for students to submit their loan application before June 30. Students who apply after that date may not receive their loans until well into the semester and may not qualify for tuition deferments.

Canada Millennium Scholarships – Exceptional Merit Awards

Beginning in the fall of 2000, Exceptional Merit Awards of \$3,000 to \$9,000 will be made available to British Columbia students entering in post-secondary education for the first time. These awards will be distributed without reference to financial need and will be non-renewable. In consultation with the Province of British Columbia, the Foundation is currently developing eligibility criteria for its Exceptional Merit Awards.

Students From Other Provinces

Students from other provinces are required to seek information from their respective provincial student assistance branches.

Government Part-time Loans and Grants

Federal loans are also available for part-time Students. These loans fund only direct educational expenses such as tuition, books, supplies, and childcare while the parent is at school.

Canada Study Grants for High-need Part-time Students assist students who are unable to meet the eligibility requirements of the full-time loans program and whose income falls below a prescribed threshold. Students with dependants who receive a high-need part-time grant may also qualify for additional assistance in the form of a Canada Study Grant for Students with Dependants.

Eligibility

Students must be Canadian citizens residing in a province that issues Canada Student Loans, and be taking between 20 and 59% (less than nine credit hours per semester) of a full course load.

Application

To be eligible for part-time federal or provincial grants, students must apply for a federal part-time loan, as grant eligibility is determined using the federal loan criteria. A single application form for the part-time Canada Loan and/or Canada Study Grants must be submitted to the UNBC Awards Financial Aid and Student Employment office for consideration.

If applicable, grant monies will be awarded first, and any remaining unmet need will be met through a federal part-time loan document.

Further information on part-time loans and grants is available from the Awards Financial Aid and Student Employment office.

Work Study

The work study program, funded by the BC Ministry of Advanced Education, Training and Technology, provides a limited number of full-time students with the opportunity to work on campus for up to ten hours per week. The program is governed by the British Columbia Student Assistance Program (BCSAP) guidelines. Therefore, to be eligible, students must first apply for BCSAP funding.

Application forms for the Work Study program are available in the Awards, Financial Aid and Student Employment office in September each year.

Assistance for Students with Permanent Disabilities

As part of the Canada and Provincial Student Loans Program, three assistance options are available for full-time or part-time students with permanent disabilities: Canada and Provincial Student Loan Assistance, Special Opportunity Grants, and Permanent Disability Benefits.

Canada and Provincial Student Loan Assistance

Relaxed eligibility criteria for Canada Student Loan Assistance are designed to encourage full-time or part-time students with permanent disabilities to participate in post-secondary education. For example, a full-time student with a permanent disability may be eligible for full-time loan assistance if he or she is enrolled in a minimum 40% or six credit hours of a full program of study. To be eligible for federal grants, students must first apply for loan funding to cover their direct educational costs.

Canada Study Grants for Students with Disabilities

Federal Canada Study Grants are designed to assist disabled students with exceptional education-related costs associated with certain permanent disabilities and are to be used for the purchase of goods and services which will help the students to access post-secondary education. Technical aids, computer technology, restorative devices, and vehicle modification are examples of eligible goods and services; tuition and books will not be funded under this program. Students must complete a separate application form if they wish to be considered for a Canada Study Grant.

Permanent Disability Benefit

The Permanent Disability Benefit is designed to assist students who, because of their disability, are unable to meet the repayment obligations for a Canada Student loan without exceptional hardship. A separate application form must be completed for students who wish to apply for the Permanent Disability Benefit.

Information

Additional information and application forms for federal and provincial student assistance programs as described above are available in the Awards, Financial Aid and Student Employment Centre at UNBC, at any other post-secondary institution in BC, or by contacting the Ministry of Advanced Education, Training and Technology toll-free at 1-800-561-1818. Information can also be obtained by accessing the Ministry's web site at <http://www.est.gov.bc.ca/ssb/welcome/htm>

■ IV. Student Employment

The Awards, Financial Aid and Student Employment Centre provides students with information on a variety of employment opportunities which include part-time, full-time, and seasonal or summer work positions.

Employment opportunities are posted on the Job Board located outside the Registrar's Office. Students may also view job postings on the Job Centre Web Site at <http://counsel.unbc.ca/jobcentre/>

Résumé writing and interview skills workshops are held throughout the year to assist students in preparing and submitting applications for employment. An annual Career Fair is held during the third week in March each year to provide students with the opportunity to explore career options and gather information on the kinds of employment opportunities available to university students.

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Chris Opio, Assistant Professor—BScF (New Brunswick) MEdes (Calgary) PhD (Alberta)
Katherine Parker, Associate Professor—BA MA PhD (Washington State)

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 Roger Wheate, Associate Professor/GIS Lab Coordinator—BSc Hons (St Andrews) MA (Queen's) PhD (St Andrews)

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Adjunct Faculty

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Adjunct Faculty

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Social Work

Barbara Herringer, Associate Professor and Program Chair—BA (Alberta) BSW MSW (British Columbia) PhD (Victoria)
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Kwong Leung Tang, Associate Professor—BSoc Sc Hons MSW (Hong Kong) MSc (London School of Economics) LLB Hons (London) LLM (Cambridge) PhD (California, Berkeley)

Women's Studies

Robin Fisher, Professor and Program Chair—BA (Massey) MA (Auckland) PhD (British Columbia)
Marianne Ainley, Professor—BA (Sir George Williams) MSc (Montreal) PhD (McGill)
Julia Emberley, Associate Professor—BA Hons (W Ontario) MA (Queen's) PhD (York)
Jo-Anne Fiske, Associate Professor—BEd MA PhD (British Columbia)
Barbara Herringer, Associate Professor—BA (Alberta) BSW MSW (British Columbia) PhD (Victoria)
Barbara Isaac, Assistant Professor—BSW Hons MSW (Victoria)
Deborah Poff, Professor—BA Hons (Guelph) BA Hons (Queen's) MA (Carleton) PhD (Guelph)

Adjunct Faculty

Suzanne LeBlanc, Instructor—BA MA PhD (Toronto)

Glossary

Note: words or phrases in italics are defined elsewhere in this glossary.

Academic discipline—refers to any sanction imposed by the University for acts judged to be intellectually dishonest, including such things as cheating on exams, plagiarism, falsifying laboratory results, etc.

Academic excellence—normally a minimum A- average, equivalent to or greater than a 3.67 GPA.

Academic proficiency—normally a B- average, equivalent to or greater than a 2.67 GPA.

Academic sanction—the penalty imposed by the University for intellectual dishonesty. Penalties may include a warning, reassessment of the work, failure on the particular assignment or in the course, etc.

Academic year—the academic year at UNBC runs from September 1 until August 31 the following year.

Admit—students are admitted to the University and assigned a permanent student number effective on the date of their admission. See *enrol* and *registration*.

Advanced standing—In cases in which course challenge is not possible or transfer credit was unable to be granted, the Dean or Program Chair, upon review of the student's background, may grant the student permission to undertake advanced coursework without the normal prerequisites. Such advanced standing will not reduce the number of credits that the student must accumulate to obtain a UNBC degree.

Alumni—graduates of the University.

Ancillary course—a course in a program other than the home or primary program in which the student is majoring or minoring which has sufficient substantive content in common with the primary discipline to count as an equivalent course in that major or minor.

Annual GPA—calculated on the basis of grade point averages for credit hours completed during the awards year, May 1 to April 31.

Appeal—the act or process of requesting the review of a decision by an official of the University. Students may appeal decisions on transfer credit, grades, tests, assignments, final grades, questions of process, disciplinary action, etc. All appeals should first be made to the person responsible for the initial decision.

Arts—studies in two fundamental areas of human knowledge—humanities and social sciences—are called Arts.

Assistant and Associate Professors—see *Professor*.

Award—an award may be a fellowship, scholarship, bursary, prize, or other monetary or non-monetary recognition assigned to a student.

Award Units—calculated by multiplying the credit hours completed during the specified term by the grade points received for those hours.

Audit—an official category by which a student is allowed to register in a credit course and attend lectures but may not be required to write the final examination and does not receive a grade or credit.

BA, BComm, BEd, BSc, MA, MSc, MEd, MSW, PhD—the most common abbreviations for degrees. In turn, they are: Bachelor of Arts, Bachelor of Commerce, Bachelor of Education, Bachelor of Science, Master of Arts, Master of Science, Master of Education, Master of Social Work, and Doctor of Philosophy.

Bachelor, Master, and Doctor—are the three levels of university degree, in ascending order. A Bachelor's degree can be earned when a student acquires a total of at least 120 credits (equivalent to four years of study for a full-time student). A Master's degree is typically attained by a graduate student who takes at least a further year of course-work and writes a thesis. Achieving a Doctorate typically requires, over an additional four year period, further courses and examinations, and then completion of a dissertation.

BC Student Assistance Program—is the official agency in the province which is responsible for supplying loans and bursaries to students. Loans and bursaries are dependent upon need and require a student to maintain full-time status (nine credit hours or more).

Board of Governors—the chief policy-making body of a Canadian university is usually known as the Board of Governors, with members appointed by government, elected from faculty, staff and student groups.

Bursary—a non-repayable grant made to students who have proven financial need and who hold a satisfactory academic record.

Calendar—is the University's official publication, issued annually, which describes admission requirements, grading and academic regulations, program requirements and course descriptions.

CGPA, cumulative grade point average—expresses performance as a numerical average for all semesters completed. The CGPA is calculated by dividing the total number of grade points earned to date by the total number of credit hours undertaken to date. (Letter grades of P or W are not assigned a numerical value and are not used in calculating the grade point average.)

GLOSSARY

Chair or Head—at most universities heads an academic department. UNBC, however, in accordance with its plan to maximize a multi-disciplinary approach, instead has Program Chairs. Chairs are the academic and administrative leaders of particular programs. The Chair of History, for example, leads and reviews the courses being offered in History, and represents the History faculty.

Chancellor—is the honorary head of a University, and confers all degrees at Convocation.

College—UNBC has two Colleges—College of Arts, Social and Health Sciences and College of Science and Management. Each comprises a number of Faculties and Programs and is headed by a Dean.

Concentration—is a designated program of study within a discipline or within a multi-disciplinary field of knowledge.

Course challenge—allows students to demonstrate that they have acquired a command of the general subject matter, knowledge, and intellectual and/or other skills that would normally be found in a university-level course, usually by writing an exam.

Convocation ceremony—is an event attended by members of the Convocation and is usually the formal ceremony at which degrees are conferred. At Convocation, the University recognizes academic achievement, and confers degrees and other academic awards. UNBC's first Convocation ceremony was held in May 1992 for the official installation of the President and Chancellor, and in May 1994, the second Convocation ceremony saw the graduation of UNBC's first (*QuickStart*) students.

Co-operative education—is based on the principle of meaningfully integrating a student's academic program with practically oriented work experience. This is achieved through an alternating sequence of four-month work and study semesters.

Co-requisite—is a course which is required to be taken concurrently with another course.

Credential—is a degree, diploma, or certificate awarded on successful completion of a program.

Credit hours (also known simply as credits)—are the numerical values given various courses. A typical full-time student earns 30 credits per year broken down as ten three-credit courses. One credit hour is defined as the equivalent of one hour of instruction per week for a semester (roughly three and one half months). Students are expected to spend time studying on their own in addition to formal instruction time. Most UNBC courses are three credit hours, although a course may have higher or lower credit hour values or a range of values.

Dean—heads a *College*, and working in co-operation with the Vice-President Academic and academic staff, develops the programs and courses within that Faculty. *Chairs* report to a Dean.

Directed study or directed readings—usually describes a course which does not have a prescribed curriculum. In consultation with the instructor, the student chooses a specific topic and then undertakes an in-depth study of this topic. All directed study courses must be approved by the instructor before registration.

Discipline—refers to courses in a specific area; for example, English in arts, Biology in the sciences, or Marketing in Business Administration.

Dissertation or thesis—is a substantial piece of work written as part of the requirements for a postgraduate degree (see *BA*, *BE*, *Ed*, ...).

Distance learning—usually involves learning by correspondence, telephone, interactive video and occasional weekend or week-long visits to campus.

Doctorate—see *Bachelor*.

Double major—a student who wishes to graduate with a double major must complete the lower and upper division program requirements for both fields of study.

Drop period—the period each semester during which courses may be dropped without academic penalty.

Elective—is one or more courses outside of the major requirements that students must take to fulfill their program requirements.

Enrol—a student is enrolled in a degree program. The enrolment date determines the degree regulations that a student follows to be eligible to graduate. See *admit* and *registration*.

Enrolment limits—when the number of qualified applicants exceeds, in the judgment of the University, the number of students who can be accommodated, the University reserves the right to select the quota from among the qualified applicants. Some academic programs within the University also have enrolment limits.

Exchange program—the University has a number of reciprocal agreements with other universities that allow students from UNBC to study there, or permit students from these universities to study at UNBC.

Faculty—is the academic unit that encompasses a group of Programs in related disciplines.

The **faculty**—as opposed to Faculty (with a capital F), are the academic staff who teach and carry out research.

Fees—are all charges levied by the University in consideration of academic and related services or products.

Fellowship—an award usually available only to graduate students, awarded on the basis of high academic achievement (academic excellence or academic proficiency) toward which secondary criteria may be applied.

Financial assistance—is a monetary supplement to help offset normal expenses a student may encounter. Financial assistance varies with need.

Foreign national—is a person who does not hold Canadian citizenship or permanent resident status as defined by Employment and Immigration Canada. International students are required to pay higher fees and may face enrolment restrictions in certain programs.

Full-time graduate student—a full-time graduate student for income tax purposes is a graduate student who is enrolled in six credit hours or more per semester, or is enrolled in a thesis, project or comprehensive examination; for BC Student Assistance program purposes a full-time graduate student is one who is admitted as a full-time graduate student to a graduate studies program.

Full-time undergraduate student—a full-time undergraduate student for income tax purposes is an undergraduate student who is registered in 12 credit hours or more per semester; for BC Student Assistance program purposes, a full-time undergraduate student is registered in nine credit hours or more.

Grade—the final grade for the course expressed as a percentage value.

Grade points—a way of numerically expressing a student's academic performance. Numerical values are assigned to each possible grade.

GGPA, graduation grade point average—In order to graduate a student must have a minimum CGPA average of 2.0.

GPA, grade point average—is a method of expressing the student's performance as a numerical value. Each letter grade is assigned a numerical equivalent, which is then multiplied by the credit hour value assigned to the course to produce the grade point.

Graduate student—is one who has already achieved a Bachelor's degree and is now studying for a Master's or doctoral degree.

Graduate studies—academic studies which are taken after a student has completed an undergraduate degree.

Graduation regulations—specific requirements students must meet in order to be awarded a degree or university certificate, such as the total credits required, the minimum credits that must be completed at the upper division level, and the minimum credits that must be completed at UNBC.

Harassment—aggressive or threatening behaviour which would be considered by a reasonable person to create an environment uncondusive to work or study.

Intellectual dishonesty—examples are *plagiarism*, cheating or helping others to cheat on exams, submitting essays prepared by others, falsification of lab results, impersonating another student at an exam and the misrepresentation of information on, and the falsification of, academic records.

Joint major—a degree designed for students interested in a combination of two related fields of study. The course requirements are selected to provide students with a solid specialization in each of the two fields and graduation requirements can normally be met in four years.

Laboratory science course—is a course that contains a substantial amount of work on exercises, techniques and equipment and sample handling which are relevant to the course discipline. The lab portion of these courses is usually supervised.

Lecture—usually, the larger class part of a course, as opposed to a tutorial, and which usually meets for two or more hours a week and is led by a professor.

Letter of Permission—is a document permitting a student to take one or more courses at another post-secondary institution to be used for credit toward a UNBC degree.

Level—each course is assigned a level, indicated by the first digit of its course number: lower division (100 and 200) or upper division (300 or 400).

Lower division course—usually introductory or survey courses, offered at UNBC at the 100 and 200 level. Most programs require 60 credit hours of lower division course as part of the graduation requirements.

Major—is a designated program of study within a discipline or field of knowledge (see *Minors*).

Marks—are percentage values given to individual quizzes, assignments, tests, exams, etc. that reflect the degree of understanding that the student has shown for the course materials.

Master's degree—is a graduate level degree which is normally completed after a student has completed a first or undergraduate degree (see *Bachelor*).

Medal—the award is an academic medal, awarded on the basis of academic achievement (academic excellence or academic proficiency), toward which secondary criteria may be applied.

Minimum Standing—for the purpose of awards eligibility, minimum standing ("passing grades") shall be considered equivalent to satisfactory academic standing.

Minors—are secondary fields of study requiring some degree of specialization in a subject area, but fewer courses than required for a major.

Multi-disciplinary—universities typically divide knowledge into specific subject areas, or disciplines (History, Physics, etc). UNBC wishes to promote, so far as possible, the interconnectedness of ideas, and thus has adopted a multi-disciplinary approach, in which the insights from various disciplines can be introduced into particular programs.

Plagiarism—is the willful act of presenting another person's work as one's own without the proper academic acknowledgment and recognition.

Post-baccalaureate—is achieved by a student who already has a Bachelor's degree and then takes further study, but not at the Master's level.

Postgraduate study—is at the Master's or doctorate level.

GLOSSARY

Practicum course—is a course with a substantial amount of supervised, discipline-related time in actual work settings.

Precluded course—This is a currently or formerly offered UNBC course whose curriculum overlaps the course being described to the extent that students would be duplicating coursework if they completed both courses. Thus students cannot receive credit for both the course being described and the courses listed in this section. *Precluded courses* are usually the result of a course revision, course renumbering, or cross-listing of courses.

Pre-registration—the act or process of registering for a course with a start date in the future is called pre-registration. Pre-registration is considered a registration, and if a student decides to change his or her pre-registration, they must inform the Registrar's Office in writing.

Prerequisites—a prerequisite course is an academic requirement that must be completed prior to the student taking a course. Prerequisites are used to ensure that a student has the required background to successfully complete the course. Prerequisites may also have prerequisites. These prerequisites must also be fulfilled.

President and Vice-Chancellor—is the chief executive officer of a university.

Prize—the award's value may be non-monetary, such as a book or other gift-in-kind, or if monetary, its value is normally less than \$250.

Professor—the ranks of permanent academic staff are, in ascending order, Lecturer, Assistant Professor, Associate Professor, and Full Professor. Sessional lecturers are teaching staff hired for a particular session (e.g. two semesters) only.

Program—is the basic academic unit and is comprised of a coherent set of courses in a particular area of study.

Program Chair—see *Chair*.

Program requirements—programs of study require a student to take specific courses or to take courses from specified areas of study or disciplines, or to take courses at a specific level of study. These are program requirements and form part of the regulations for each program.

Project-based dissertation—in a Master program, this refers to a detailed, critical description of a practical project for implementing change within an organization where the student describes the rationale, practices, strengths, and weaknesses of a change and links the practice to a body of theory or research in a direct way.

Registration—is the process of selecting and undertaking specific courses at UNBC. See *admit* and *enrol*.

Residency—specified courses from UNBC needed to obtain a credential make up the residency requirement. This is part of the *graduation regulations*.

Resident of Northern BC—a resident of northern British Columbia is so categorized by virtue of birth or continuous dwelling within the defined region for the four years immediately prior to admission at UNBC. The area comprising northern British Columbia is defined in the *University of Northern British Columbia Act*.

Sabbatical—also known as study leave or research leave, is normally of one year's duration, and may be taken by academic staff to conduct an approved set of research activities. It was typically taken in the seventh year, and thus the name.

Satisfactory Academic Standing—normally a minimum C average, equivalent or greater than a 2.00 GPA.

Scholarship—a non-repayable cash payment made to students in recognition of outstanding academic achievement.

Science—studies that normally encompass courses based on a knowledge of facts, phenomena, laws, and proximate cause are designated Science (e.g. biology, chemistry, computer science, geography, mathematics and physics).

Semester—is either of the two main academic terms making up the academic year. Some universities use a trimester system (i.e. they divide the year into three, rather than two semesters). Fall semester courses typically run from September through December while winter courses are usually offered from January through April. Summer semester courses run from May through August.

Senate—is the ruling academic body of a BC university, responsible for decisions of an academic nature affecting the university.

Sessional staff—see *Professor*.

SGPA, semester grade point average—is computed by dividing the total number of grade points earned by the total number of credit hours taken in the semester.

Student number—a ten-digit number is assigned to all students to help identify them. Students should have their student numbers available whenever they contact the University.

Supervisor—in an academic context a supervisor coaches and supports a student's work in a senior, project-based course, or a graduate thesis/project.

Tenure—which can be gained by permanent academic staff, embodies the concept of academic freedom: it guarantees that the individual cannot be dismissed as a result of his or her superiors disagreeing with his/her academic ideas.

Thesis—see *Dissertation*. In a Master program, a thesis or project builds upon the knowledge and skills that the student has learned in his/her previous coursework. The thesis or project is normally completed as the last element of the student's graduate program.

Timetable—the printed list of available courses distributed to all students eligible to register in a semester.

TOEFL—the Test of English as a Foreign Language.

Transfer credit—credit granted for the successful completion of coursework at another accredited institution is transfer credit.

Transfer credit summary—is a specialized document issued by the Office of the Registrar which indicates courses that have been approved towards a student's degree program. The transfer credit summary is normally sent to students when the evaluation of their previous education is completed, when a student is notified of a final grade, and upon the student's request.

Transcript—an official document prepared by the Office of the Registrar recording a student's academic performance and bearing the University seal is called a transcript. Transcripts must be requested in writing and will not be released to anyone without the student's permission.

Tutorial—the “small group” discussion portion of a larger lecture class, usually an hour in length.

Unspecified credit—transfer credit granted for courses without a direct UNBC equivalent but which clearly fall within a discipline and which may, therefore, be used to fulfill subject requirements for a degree in that discipline.

Undergraduate—is a student enrolled in a Bachelor's degree program.

University transfer programs—typically allow people with two years at a college to transfer directly into a university for two further years of study in the subject to gain a degree.

Upper division course—a course number in the 300s or 400s; assumes a background of university learning and often specifies one or more lower division courses as a prerequisite.

Vice-Chancellor—see *President*.

Visiting student—any person taking courses for transfer of credit to another post-secondary institution is a visiting student.

Withdrawal—is voluntary exit from a course, program or the University by a student and at the student's request.

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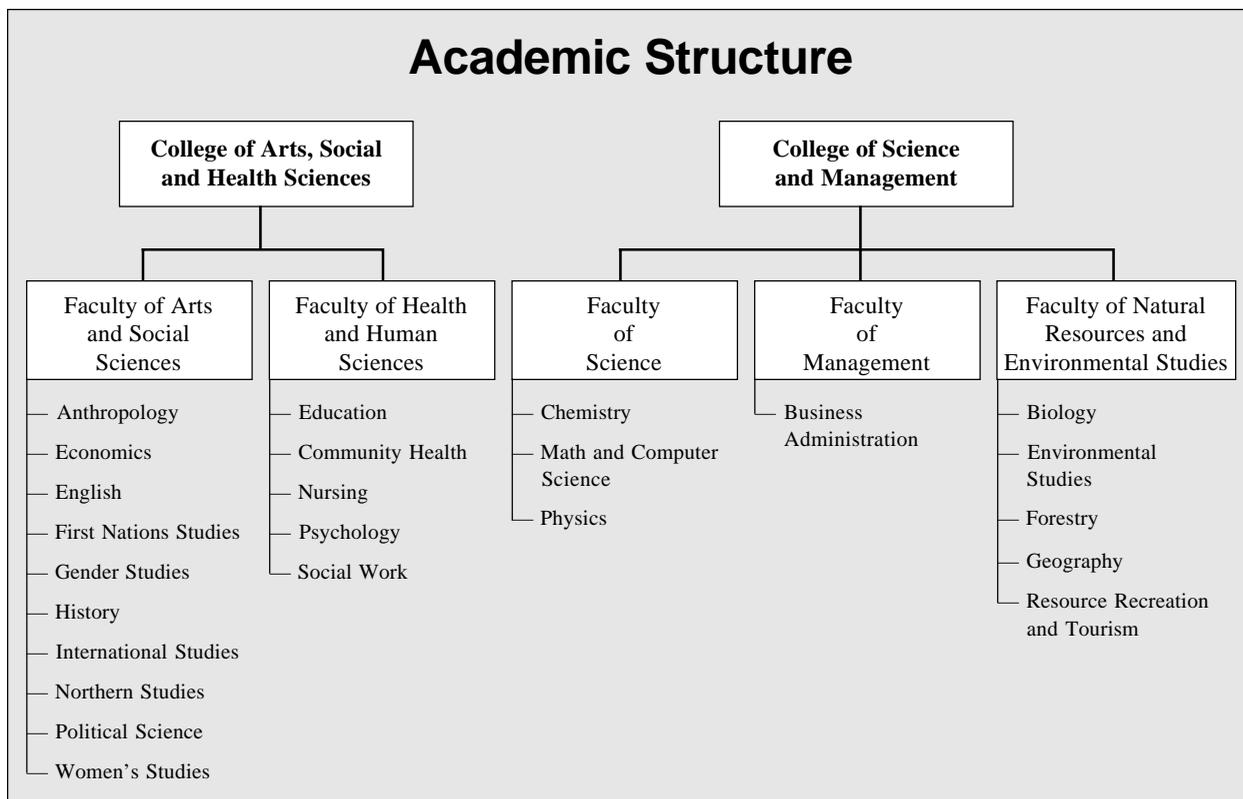
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Hours of Operation

The following hours of operation are for offices only. Classes are offered Monday to Saturday. Course schedules will be available prior to the commencement of each semester.

Some units such as the Library and Office of the Registrar may be open beyond the hours listed below. Extended hours will be posted in advance. All times are Pacific, except where specified.

Holidays

The University is closed on the following holidays. Specific dates of closure are noted in the Sessional dates on pages eight and nine.

New Year's Day	January
Good Friday	April
Easter Monday	April
Victoria Day	May
Canada Day	July
BC Day	August
Labour Day	September
Thanksgiving Day	October
Remembrance Day	November
Christmas Day	December
Boxing Day	December

Emergency closures

In the event of severe weather or other unforeseen emergencies, the University may be closed. Please tune in your local radio station for up-to-the-minute details concerning closures.

Finance

Monday to Friday 8:30 am – 12 pm; 1 pm – 4:30 pm

Registrar's Office – Service Counter

Monday to Friday 9 am – 4:30 pm

Student Success Centres – Service Counter

Monday to Friday 9 am – 4 pm

The hours of operation for the following services are Fall and Winter hours. Contact these services to inquire about Summer hours of operation.

Bookstore

Monday to Thursday 9 am – 5 pm
Friday 9:30 am – 5 pm

The Corner Store

Monday to Friday 8 am – 6 pm
Saturday 11 am – 4 pm

Educational Media Services

Monday to Thursday 8:30 am – 8:30 pm
Friday 8:30 am – 4:30 pm
Saturday 12 pm – 4 pm

Fitness Centre

Monday to Friday 6:30 am – 10 pm
Saturday and Sunday 8 am – 10 pm

Food Court

Monday to Friday 7 am – 7 pm
Saturday 9 am – 2 pm

Library

Monday to Thursday 8 am – 12 am
Friday 8 am – 9 pm
Saturday 10 am – 6 pm
Sunday 12 pm – 12 am

Northern Undergraduate Student Society

Monday to Friday 9 am – 5:30 pm

Northwood Winter Garden Deli

Monday to Friday 10 am – 10:30 pm
Saturday 2 pm – 9 pm
Sunday 9 am – 8 pm

REGIONAL OFFICES

All regional offices close one hour for lunch — some from 12 pm – 1 pm and others from 12:30 pm – 1:30 pm.

Northwest – Terrace

Monday to Friday 8:30 am – 4:30 pm

Peace River–Liard – Fort St. John

Monday to Friday 8:30 am – 4:30 pm
(Mountain Standard Time)

South-Central – Quesnel

Monday to Friday 8:30 am – 4:30 pm

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