



# 2008 – 2009 Calendar

**Effective date of information, unless otherwise noted:  
March 1, 2008.**

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

Students are responsible for informing themselves of the risks associated with field and laboratory studies. By participating in such studies they shall be deemed to have accepted personal responsibility for all such risks (including, without limitation, all risks identified by course instructors/supervisors and in literature that has been published by the University or that has otherwise been made available to students), to have agreed to abide by the safety rules and procedures established by their instructors/supervisors for such activities, and to have waived the liability of the University of Northern British Columbia and its instructors/supervisors in respect of such activities.

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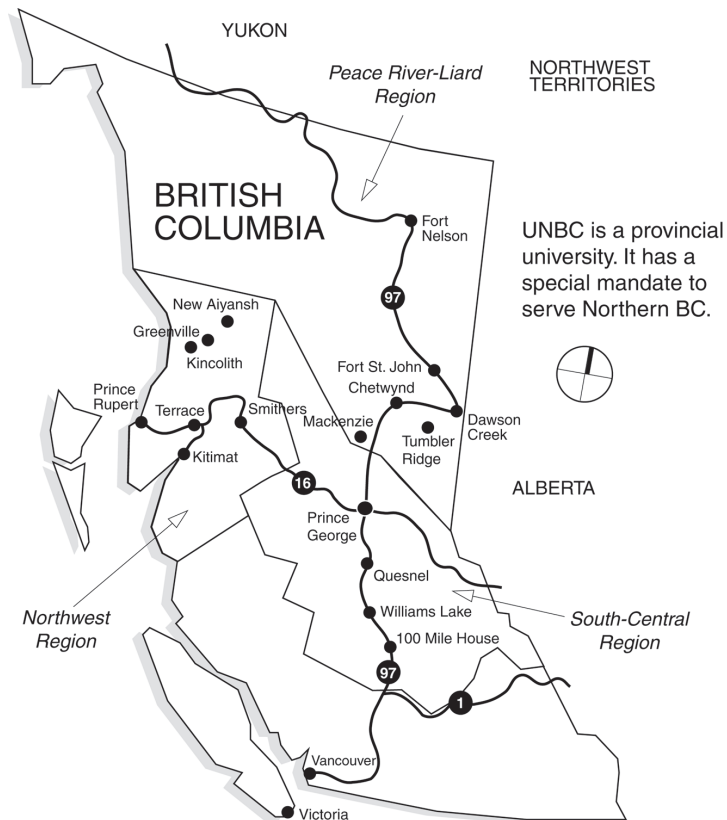
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The 2008-2009 *University of Northern British Columbia Undergraduate Calendar* was prepared by the Office of the Registrar.

## Frequently Called Numbers

Academic Advising.....	(250) 960-6340
Advancement Office <i>Donations and Fundraising</i> .....	(250) 960-5750
Awards, Financial Aid, Student Employment ( <a href="http://www.unbc.ca/finaid">www.unbc.ca/finaid</a> ) .....	(250) 960-6364
Accounts Receivable .....	(250) 960-5576
Athletics and Recreation Centre .....	(250) 960-6368
Bookstore .....	(250) 960-6424
Calendar Requests .....	(250) 960-6306
Campus Visits/Tours <i>Prospective Students and General Public</i> .....	(250) 960-6306
Cashiers <i>For payment by VISA/MasterCard</i> .....	(250) 960-5631
Communications .....	(250) 960-5620
Conference Services .....	(250) 960-5520
Continuing Education .....	(250) 960-5980
Co-operative Education .....	( <a href="http://www.unbc.ca/co-op">www.unbc.ca/co-op</a> ) (250) 960-6598
Counselling Centre .....	(250) 960-6369
Disability Services .....	( <a href="http://www.unbc.ca/disabilities">www.unbc.ca/disabilities</a> ) (250) 960-5682
Educational Media Services .....	(250) 960-6470
Facilities .....	( <a href="http://www.unbc.ca/facilities">www.unbc.ca/facilities</a> ) (250) 960-6407
Finance .....	( <a href="http://www.unbc.ca/finance_dept">www.unbc.ca/finance_dept</a> ) (250) 960-5510
First Nations Centre .....	(250) 960-5772
Food Services .....	(250) 960-5780
Office of Research and Graduate Programs ..	( <a href="http://www.unbc.ca/graduatestudies">www.unbc.ca/graduatestudies</a> ) (250) 960-5244
Harassment and Discrimination Advisor .....	(250) 960-6618
Health and Wellness Centre .....	(250) 960-6370
Housing Services .....	( <a href="http://www.unbc.ca/housing">www.unbc.ca/housing</a> ) (250) 960-6430
Human Resources .....	(250) 960-5521
International Operations .....	(250) 960-5702
Information Technology Services (Student help desk).....	(250) 960-5321
Learning Skills .....	(250) 960-6367
Library .....	( <a href="http://lib.unbc.ca">lib.unbc.ca</a> )
<i>Reference Desk</i> .....	(250) 960-6475
<i>Circulation Desk (book renewals)</i> .....	(250) 960-6613
<i>Regional Librarian</i> .....	(250) 960-6473
<i>Distance/Regional Services</i> .....	(250) 960-6604
<i>Interlibrary Loans</i> .....	(250) 960-6460
Main Switchboard .....	(250) 960-5555
News Media Inquiries .....	(250) 960-5622
Northern Undergraduate Student Society .....	( <a href="http://nugss.unbc.ca">http://nugss.unbc.ca</a> ) (250) 960-6427
President's Office .....	(250) 960-5600
Purchasing, Contract and Risk Management.....	(250) 960-5500
Regional Campuses	
<i>UNBC Terrace Campus</i> .....	(local) 615-5578 .....(long distance) 1-800-697-7388
<i>UNBC Fort St. John Campus</i> .....	(local) 787-6220 .....(long distance) 1-800-935-2270
<i>UNBC Quesnel Campus</i> .....	(local) 991-7540 .....(long distance) 1-800-627-9931
<i>UNBC Prince Rupert Campus</i> .....	(local) 624-2862 .....(long distance) 1-888-554-6554
<i>Wilp Wilxo'oskwhl Nisga'a</i> .....	(local) 633-2292 .....(long distance) 1-800-980-8838
Regional Operations .....	( <a href="http://www.unbc.ca/regops">www.unbc.ca/regops</a> ) (250) 960-5584
Registrar's Office .....	( <a href="http://www.unbc.ca/registrar">www.unbc.ca/registrar</a> )
<i>Admissions, Registration, Records</i> .....	(250) 960-6300
<i>Fax</i> .....	(250) 960-6330
Student Housing ( <i>on and off campus</i> ) .....	(250) 960-6430
Student Services .....	(250) 960-6364
Student Recruitment (Prospective Student Information).....	(250) 960-6306
TTY Service .....	(250) 960-5307
University of Northern British Columbia.....	<a href="http://www.unbc.ca">www.unbc.ca</a>
College of Arts, Social and Health Sciences .....	<a href="http://www.unbc.ca/cashs">www.unbc.ca/cashs</a>
College of Science and Management .....	<a href="http://www.unbc.ca/csam">www.unbc.ca/csam</a>
Course Schedule and Online Registration .....	<a href="http://www.unbc.ca">www.unbc.ca</a>

## UNBC's Northern Mandate



## Addresses

**Prince George Campus**  
3333 University Way  
Canada V2N 4Z9  
Telephone (250) 960-5555  
[www.unbc.ca](http://www.unbc.ca)

**UNBC Terrace Campus**  
4837 Keith Avenue  
Terrace, BC  
Canada V8G 1K7  
Telephone (250) 615-5578  
Toll Free 1-800-697-7388  
Fax (250) 615-5478  
[www.unbc.ca/regops/nw](http://www.unbc.ca/regops/nw)

**UNBC Fort St. John Campus**  
Box 1000, 9820 - 120th Ave  
Fort St John, BC Canada V1J 6K1  
Telephone (250) 787-6220  
Toll Free 1-800-935-2270  
Fax (250) 785-9665  
[www.unbc.ca/regops/prl](http://www.unbc.ca/regops/prl)

**UNBC Quesnel Campus**  
S100, 100 Campus Way  
Quesnel, BC  
Canada V2J 7K1  
Telephone (250) 991-7540  
Toll Free 1-800-627-9931  
Fax (250) 991-7528  
[www.unbc.ca/regops/sc](http://www.unbc.ca/regops/sc)

**UNBC Prince Rupert Campus**  
353-5th Street  
Prince Rupert, BC  
Canada V8J 3L6  
Telephone (250) 624-2862  
Toll Free 1-888-554-6554  
Fax (250) 624-9703  
[www.unbc.ca/regops/nw](http://www.unbc.ca/regops/nw)

**Wilp Wilxo'oskwhl Nisga'a  
Affiliate Campus**  
Box 237  
5130 Skateen Avenue  
New Aiyansh, BC  
Canada V0J 1A0  
Telephone (250) 633-2292  
Toll Free 1-800-980-8838  
Fax (250) 633-2463  
<http://wwni.bc.ca/>

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# President's Message

## Welcome to UNBC!

It's my pleasure to welcome you to the University of Northern British Columbia.

With outstanding faculty, a beautiful campus, opportunities for regional coursework in communities throughout the North, and state-of-the-art technology, UNBC is a terrific choice as a place to pursue a university education.

But don't take my word for it. Maclean's magazine has ranked UNBC the best small university in western Canada for three years in a row. Among the factors they cite are the quality of our students and faculty, our small class sizes, and our growing library collection.

But numbers only tell a part of the UNBC story, and in my experience, it's the small part. What really defines UNBC is the culture of the university and northern BC. The learning environment here is truly enjoyable. Sure, there will be times when the last thing you want to do is study for an exam or complete a huge paper, but most of the time you'll feel a tremendous excitement to learn about different things, places, and people. In addition to traditional lectures and classes, there are unique field schools, labs, week-long courses, and web courses for ultimate flexibility. But your "learning" won't be confined to the classroom. Throughout the University, you'll meet people from around the world – some with the same interests as you, and some will expose you to things you never thought existed.

At the end of the day, you'll leave UNBC with a degree that will come to symbolize once-in-a-lifetime experiences, great people, and a new understanding of who you are and what you're capable of achieving. You'll be prepared for a variety of careers, but you'll also be prepared to have an open mind, learn about the people and places around you, and contribute to the betterment of your community, wherever it happens to be.

Before you get there, I invite you to be an active participant at UNBC. You'll find that the size of the University and the friendliness of the people here will provide opportunities for you to be involved. That could include everything from being the star player on the basketball team to being a tutor for other students. There are dozens of clubs to join. You'll find that being involved is a lot of fun, while it truly enriches your learning experience here.

If you're one of the students attending our Prince George campus, you're incredibly lucky. Few university students anywhere in the world have the services and facilities you will enjoy on this campus. But don't just be at this campus to enjoy the view. Be part of the whole North. Get engaged with Prince George, visit other communities through our region, take a class in a regional campus, and get to know and understand the lives and issues of the people who call northern BC home. The issues of this region – partnering with First Nations, coping with climate change, managing our natural resources effectively, and enhancing the lives of people who live in non-metropolitan Canada – are fundamental issues for our entire country. By understanding them, you'll be a leader.

At UNBC, you'll be part of a small community of people eager to learn and make new discoveries. You'll be part of a region that is incredibly beautiful and rich in recreation opportunities. You'll be a name, not a number. That is our promise to you.

I would be happy to talk with you and introduce you to our campus community. Contact me anytime or connect with any of our staff and faculty. In this calendar, you'll discover the range of programs and services available at UNBC. You can get more information online at [www.unbc.ca](http://www.unbc.ca).

I look forward to meeting you in person and good luck in your future.

Don A. Cozzetto  
President and Vice-Chancellor



# Table of Contents

Frequently Called Numbers.....	2	Admission from College Outside BC and Quebec.....	31
UNBC's Northern Mandate.....	3	Admission from Institutes of Technology.....	31
Addresses.....	3	Admission from a College of Applied Arts and Technology (Ontario).....	31
President's Message.....	4	Other Admission Categories.....	32
Table of Contents.....	5	Admission from a Canadian University.....	32
Mission Statement.....	7	Mature Student Entry.....	32
Our Story.....	8	Special Entry.....	32
College of Arts, Social and Health Sciences Academic Structure.....	10	Interest Only.....	32
College of Science and Management Academic Structure.....	11	Audit Only.....	32
Faculty.....	12	Studying at UNBC as a Visiting Student.....	33
Officers of the University.....	19	Dual High School/University Credit.....	33
UNBC Board of Governors.....	19	Admission to a Second Undergraduate Degree.....	33
Senate.....	19	International Admissions.....	33
University Administrative Officers.....	20	Admission with a General Certificate of Education.....	33
Degrees.....	22	English Language Requirements.....	34
Undergraduate Programs.....	22	Selection Criteria for International Exchange Participants.....	35
Minor Programs.....	23	International Exchange Program.....	35
Diploma and Certificate Programs.....	23	Northern Medical Program.....	36
Graduate Programs.....	24	Services and Facilities.....	37
Permission for Undergraduates to Take Graduate Course Work.....	24	Introduction.....	37
Research at UNBC.....	24	Academic Advising.....	37
Admission to Graduate Studies.....	24	Alumni Association.....	37
Admissions.....	25	Office of University Advancement.....	37
Enrollment Management at UNBC.....	25	Bookstore.....	37
Application Deadlines.....	25	Centres.....	37
Canadian Students.....	25	Centre for Teaching, Learning & Technology.....	37
International Students.....	25	Women North Network/Northern FIRE.....	38
Degree Groups.....	26	Childcare Society.....	38
Admission Requirements by Degree Groups.....	27	Communications.....	38
Admission Requirements for Applicants from BC and Yukon High Schools.....	28	Conference and Events Services.....	38
Special Early Provisional Admission.....	28	Continuing Studies.....	38
Early Provisional Admission from a BC High School.....	28	Copy Services.....	38
BC High School Transcripts.....	28	Cornerstore.....	38
Headstart Entry from a BC High School.....	28	Facilities and Security.....	38
International Baccalaureate.....	28	Finance Office.....	39
Advanced Placement.....	29	First Nations Centre.....	39
British Columbia Adult Graduation Diploma.....	29	Food Services.....	39
Continuing Studies Credit.....	29	Vending Services.....	39
Admission from Secondary Schools and CEGEP in Other Canadian Provinces.....	29	Geoffrey R. Weller Library.....	39
Alberta and the Northwest Territories.....	29	Human Resources Department.....	40
Saskatchewan.....	29	Information Technology Services.....	40
Manitoba.....	29	Institutes.....	40
Ontario.....	29	International Exchange and Student Programs Office.....	41
Quebec.....	30	International Students.....	41
Quebec Grade 12.....	30	Northern British Columbia Graduate Students' Society.....	41
New Brunswick.....	30	Northern Undergraduate Student Society.....	41
Prince Edward Island.....	30	Office of Research and Graduate Programs.....	41
Nova Scotia.....	30	Office of the Registrar.....	42
Newfoundland and Labrador.....	30	Parking.....	42
Post Secondary Admissions.....	30	Regional Operations.....	42
Statement on Transfer.....	30	University Housing and Residence Life.....	43
Admission from a BC Community College, University College, and Yukon College.....	31	Risk Management and Safety.....	43
		Student Career Centre.....	43
		Student Success.....	43

# Table of Contents

---

Prince George Campus Buildings .....	46	Russian Studies .....	171
Prince George Campus Overview .....	47	Social Work (BSW Program) .....	171
Hours of Operation .....	48	Women's Studies (BA Program) .....	174
Fees .....	50	Course Descriptions .....	176
Undergraduate .....	50	Anthropology .....	177
International Students .....	50	Arts .....	181
Co-op Education Students .....	50	Biology .....	181
Other Fees .....	50	Chemistry .....	183
Parking Fees .....	51	Co-operative Education .....	187
Residence Fees .....	51	Commerce/School of Business .....	187
Additional Information on Fees .....	52	Computer Science .....	191
2008 - 2009 Semester Dates .....	54	Core Courses .....	196
2008 -2009 Senate Dates .....	55	Economics .....	196
Undergraduate Regulations and Policies .....	56	Education .....	198
Notification of Disclosure of Personal Information to		English .....	205
Statistics Canada .....	56	Environmental Science and Engineering .....	210
BC Freedom of Information and Protection of Privacy Act .....	56	Environmental Studies .....	212
Student Conduct .....	56	First Nations Studies .....	213
General Academic Regulations .....	58	Forestry .....	220
Programs .....	68	Geography .....	221
Canadian Association for Co-operative Education .....	69	Health and Human Science .....	224
Internship Courses .....	69	History .....	226
Northern Advancement Program .....	70	International Exchange .....	230
Student Success Initiative .....	71	International Studies .....	230
Undergraduate Programs .....	72	Languages .....	234
BA (General) .....	72	Mathematics .....	234
BSc (Integrated) .....	72	Natural Resources and Environmental Studies .....	238
Anthropology (BA Program) .....	74	Natural Resources Management .....	238
Biochemistry & Molecular Biology (BSc Program) .....	77	Northern Studies .....	239
Biology (BSc Program) .....	79	Nursing .....	240
School of Business (BComm Program) .....	81	Outdoor Recreation and Tourism Management .....	245
Chemistry (BSc Program) .....	88	Philosophy .....	247
Computer Science (BSc Program) .....	91	Physics .....	247
Economics (BA and BSc Programs) .....	94	Political Science .....	250
Education (BEEd Program) .....	96	Psychology .....	253
English (BA Program) .....	106	Social Work .....	256
Environmental Programs (BAsc, BA, and BSc Programs) .....	110	University .....	260
Environmental Engineering .....	110	Women's Studies .....	260
School of Environmental Planning (BPI) .....	112	Awards and Financial Aid .....	262
Environmental Science (BSc Program) .....	117	Awards .....	265
Environmental Studies (BA Program) .....	120	Early Admission Awards .....	268
Fine Arts (BFA Program) .....	122	Admission Awards for New Post-secondary	
First Nations Studies (BA Program) .....	124	Students .....	269
Geography (BA and BSc Programs) .....	131	Admission Awards for Undergraduate Students	
Health Sciences (BHSc Program) .....	138	New to UNBC .....	273
History (BA Program) .....	141	In-course Undergraduate Awards .....	275
International Studies (BA Program) .....	143	Open Awards .....	313
Mathematics (BSc Program) .....	146	Part-time Student Awards .....	333
Natural Resources Management (BSc Program) .....	148	Externally Administered Awards .....	336
Northern Studies (BA Program) .....	155	Financial Aid .....	338
Nursing (BScN Program) .....	157	British Columbia Student Assistance Program	
Outdoor Recreation and Tourism Management Program .....	163	(full-time students) .....	338
Philosophy .....	164	Students From Other Provinces .....	338
Physics (BSc Program) .....	164	Government Part-time Loans and Grants .....	338
Political Science (BA Program) .....	166	International Students .....	339
Psychology (BSc Program) .....	168	Assistance for Students with Permanent Disabilities .....	339
Public Administration .....	170	Index .....	340

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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 huna’ – 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, responsibility, education for its own sake, integrity, inclusion, respect for others, equity, fairness, operational efficiency, and public accountability.

## Institutional 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.

### 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.

### 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.

### Responsiveness

UNBC’s program and course offerings are based on the needs and preferences of students, the community and society. In particular, 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 will continue to contribute to the social, cultural and economic development of the north, and to an improved environment and health for its people.

### Teaching

Teaching excellence is a critical factor in effective student learning and in the transmission of knowledge to the next generation. The quality of the teaching and learning environment is an essential to

the continuing strength and growth of UNBC. Excellence in teaching requires a university environment that fosters and facilitates teaching and acknowledges and rewards success.

### 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, learning through applied learning initiatives (e.g., Co-operative Education, Internships and Practica) 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 programming which cuts across organizational units are to be 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 intends to conduct its academic business.

### Research

Knowledge creation is central to the mission and mandate of a university. Excellence in knowledge creation requires a university environment that fosters and facilitates research and scholarship and appropriately acknowledges and rewards success.

### 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.

### Internationalization

Success increasingly depends on being internationally knowledgeable and inter-culturally competent. UNBC is committed to the development of teaching, learning and research that strengthens an understanding of global interdependencies.

### 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.

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# 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 3,600 students and more than 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 Student Career Centre, a Co-operative Education Program.

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 International Operations, UNBC capitalizes on its northern setting and has established links with other universities in northern regions. Exchange agreements have been arranged with universities in the Pacific Rim, the Circumpolar North, Europe, and throughout North America, in order to contribute to the educational enrichment of UNBC students.

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 College of Arts, Social and Health Sciences. Students are thus able to take such courses either within the History program, or as part of a multidisciplinary First Nations Studies program.



## 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 focus on the environment. The second colour, gold, was added in 1991.

## 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, 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 "en chah huhNAH") is a saying of Carrier elders, with a direct translation "respect for all living things." 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.



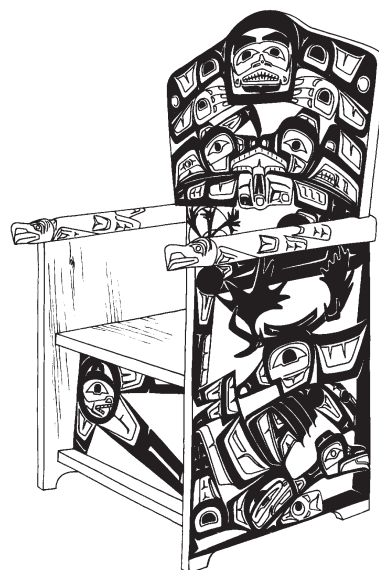
## The Ceremonial Chairs

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.

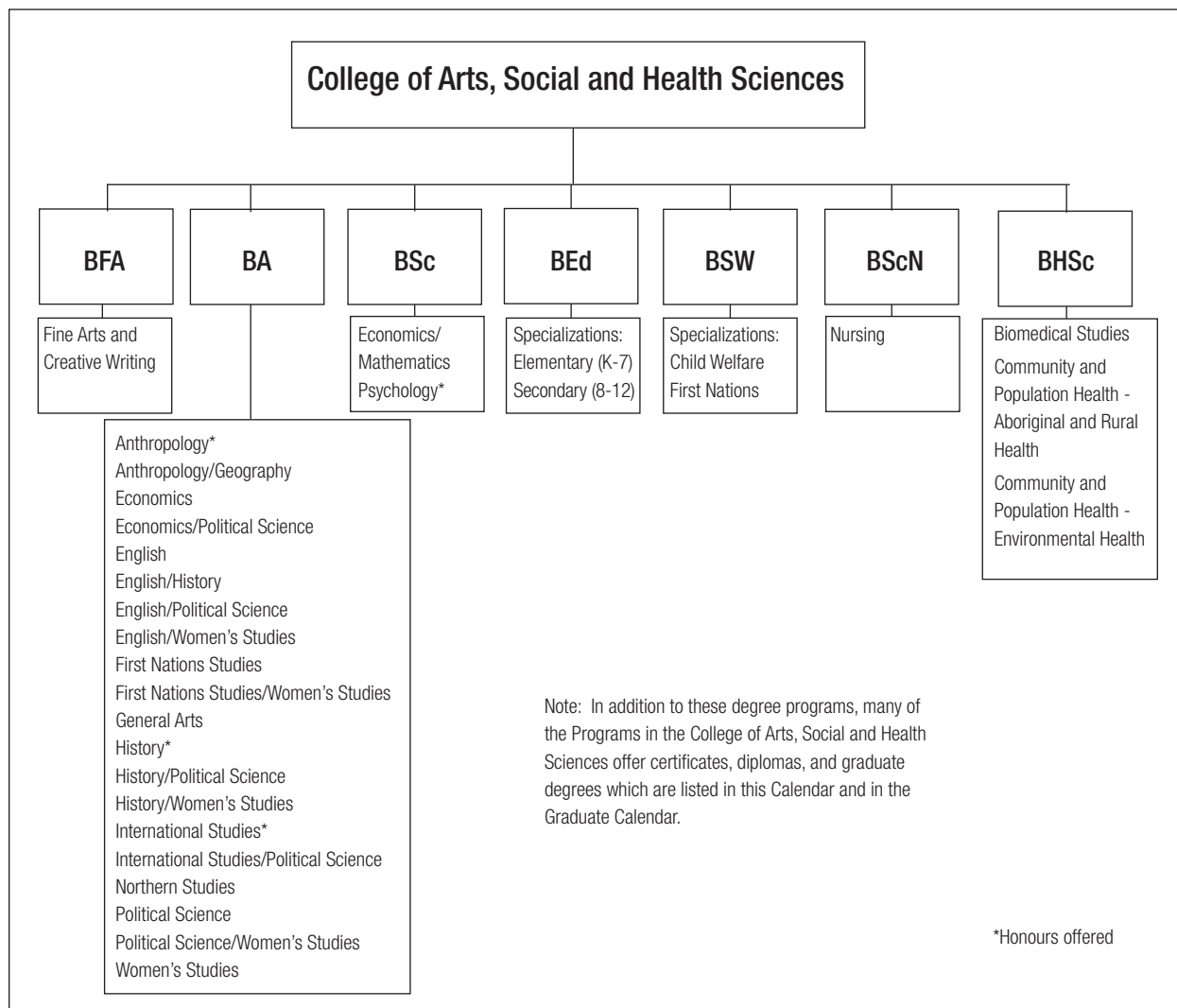


The Chancellor's Chair (left) includes representations of the thunderbird, frog, beaver, grouse, fireweed, owl, eagle, and killer whale, with arm rests carved in the shape of a wolf.

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.



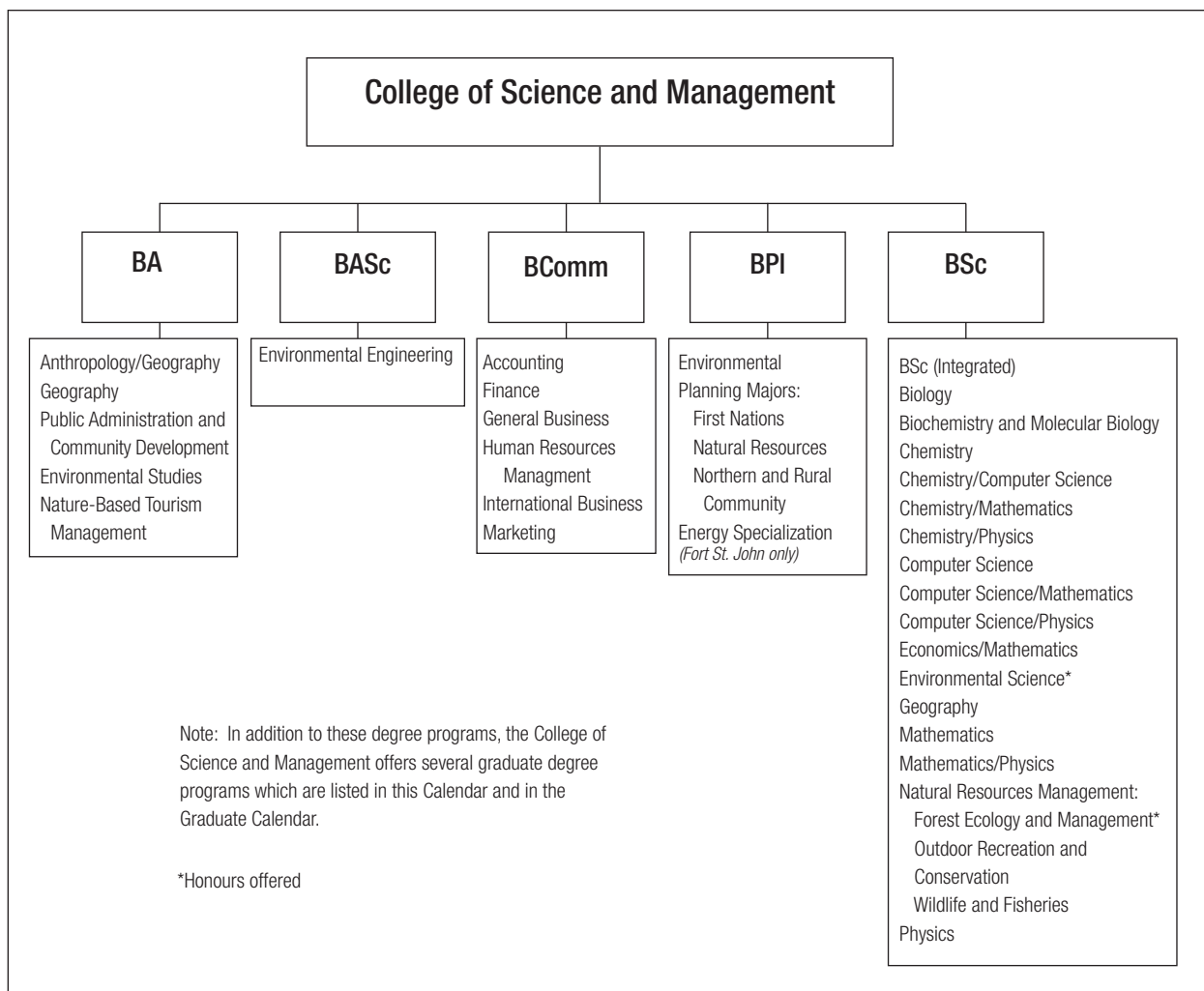
# CASHS Academic Structure



## College of Arts, Social and Health Sciences

The College of Arts, Social and Health Sciences (CASHS) includes the following programs: Anthropology, Community Health Science, Disability Management, Economics, Education, English (Fine Arts and Creative Writing), First Nations Studies, Gender Studies, Health Sciences, History, International Studies, Northern Studies, Nursing, Political Science, Psychology, Social Work, and Women's Studies. Through its teaching, research and service, the College actively promotes an understanding and appreciation of humanity, and the development of human resources in northern British Columbia. The College links northern BC to the world, and the world to northern BC. It is concerned with people, health, culture and values, and is committed to enhancing opportunities for individuals, building stronger, healthier communities, and improving quality of life.

# CSAM Academic Structure



## College of Science and Management

The College of Science and Management (CSAM) delivers 33 majors. Listed by degree they are: BA degree with majors in: Anthropology and Geography, Geography, Environmental Studies, Nature-Based Tourism Management, and Public Administration and Community Development; BAsC degree with a major in: Environmental Engineering; BComm degree with majors in: Accounting, Finance, General Business, Human Resources Management, International Business, and Marketing; BPI degree with four environmental planning themes: First Nations Planning, Natural Resources Planning, Northern and Rural Community Planning, Energy Specialization (Fort St. John only); BSc (Integrated); BSc degree with majors in: Biology, Biochemistry and Molecular Biology, Chemistry, Chemistry and Computer Science, Chemistry and Mathematics, Chemistry and Physics, Computer Science, Computer Science and Mathematics, Computer Science and Physics, Economics and Mathematics, Environmental Science, Geography, Mathematics, Mathematics and Physics, Natural Resource Management (Forest Ecology and Management), Natural Resource Management (Outdoor Recreation and Conservation), Natural Resource Management (Wildlife and Fisheries), and Physics.

Through research, teaching and outreach, the College aims to integrate the sciences, business administration, and management of natural resources and environments in ways that are recognized internationally for their roots in traditional and basic knowledge, their value to rural and remote communities, citizens and industries, and their global pertinence.

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# Faculty

- Aasen, Wendy, Adjunct Professor, First Nations Studies—BA Hons (British Columbia) MA (Alberta)
- Ainley, Marianne, Professor Emerita, History—BA (Sir George Williams) MSc (Montreal) PhD (McGill)
- Alstrom-Rapaport, Cecilia, Assistant Professor, Ecosystem Science and Management—BSc (Uppsala) MSc (Wisconsin) PhD (Uppsala)
- Anderson, Margaret, Professor, First Nations—BA MA PhD (Michigan)
- Antoniazzi, Clara, Senior Lab Instructor, Nursing—(New Caledonia), BSN (Northern British Columbia) MHS (Deakin) RN
- Aravind, Alex, Associate Professor, Computer Science—BSc MSc (India) MTech (Indian Institute of Technology) PhD (Indian Institute of Science)
- Arbenser, Lawrence, Assistant Professor, Economics—BSc (Ghana) MSc PhD (Humboldt)
- Arocena, Joselito, Professor, and Canada Research Chair, Soil and Environmental Sciences—BSc MSc (Philippines, Los Banos) PhD (Alberta)
- Aukema, Brian, Adjunct Assistant Professor, Ecosystem Science and Management—BCS/BSc (Hons) (Redeemer University College) MS, MS, PhD (Wisconsin-Madison)
- Bai, Ping, Senior Lab Instructor, GIS—BSc (Beijing) MSc (Windsor)
- Barata, Data, Assistant Professor, Anthropology—BA MA (Adis Ababa) PhD (Bergen)
- Barrett, Penelope, Associate Professor, Nursing—BEd (New England) PhD (Southern Cross) RN
- Beattie, Greg, Adjunct Professor, Social Work—BSW (Victoria) MSW (Dalhousie)
- Beaumont, Sherry, Associate Professor, Psychology—BA Hons (St Thomas) MA PhD (Waterloo)
- Beeler, Karin, Associate Professor, English—BA Hons (British Columbia) MA PhD (Alberta)
- Beeler, Stan, Associate Professor, English—BA Hons MA (Dalhousie) PhD (Alberta)
- Bellefeuille, Gerard, Associate Professor, Social Work—BSW MA PhD (Victoria)
- Bentz, Wolfram, Assistant Professor, Mathematics—BSc (Marburg) MSc (Simon Fraser) PhD (Waterloo)
- Beveridge, Erin, Senior Lab Instructor, Disability Management—BSc (Northern British Columbia)
- Bidgood, Bruce, Associate Professor, Social Work—BA (Brock) MA PhD (Wilfred Laurier)
- Binnema, Theodore, Associate Professor, History—BA (Calvin College) MA PhD (Alberta)
- Blair, Jenia, Senior Lab Instructor, Biology—BSc (Victoria) MSc (Northern British Columbia)
- Bluskov, Iliya, Professor, Mathematics—BSc (Bulgaria) MSc (Victoria) PhD (Simon Fraser)
- Bogdanski, Bryan, Assistant Adjunct Professor, Economics, Ecosystem Science and Management—BA (Queens) MA (Simon Fraser) PhD (British Columbia)
- Boon, Sarah, Adjunct Professor, Geography—BSc (Victoria) PhD (Alberta)
- Booth, Annie, Associate Professor, Ecosystem Science and Management (Forestry)—BA (Victoria) MES (York) PhD (Wisconsin) MCIP
- Bouchard, Michel, Associate Professor, Anthropology—BA (Toronto) MA (Laval) PhD (Alberta)
- Bowles, Paul, Professor, Economics—BSc Hons (Southampton) MA (Sussex) PhD (London School of Economics)
- Brown, Charles, Associate Professor, Computer Science—BASC and MASc (British Columbia) PhD (Simon Fraser)
- Brown, Willow, Assistant Professor, Education—BEd (Saskatchewan) MEd (U of Alaska SE) PhD (Saskatchewan)
- Budde, Robert, Associate Professor, English—BEd BA MA (Manitoba) PhD (Calgary)
- Burton, Philip, Adjunct Professor, Ecosystem Science and Management—BSc (Hons) (Saskatchewan) MS (Hawaii) PhD (Illinois)
- Butler, Caroline, Adjunct Professor, Anthropology—BA (McGill) MA (British Columbia)
- Caron, Nadine, Assistant Professor, Surgery, Northern Medical Program—MD (British Columbia) MPH (Harvard) FRCSC (British Columbia)
- Carroll, Alan, Adjunct Professor, Ecosystem Science and Management—BSc (Simon Fraser) PhD (UNB)
- Casperson, David, Assistant Professor, Computer Science—BSc Hons (Simon Fraser) MA PhD (Waterloo)
- Chan, Laurie, Professor, Community Health Science, and BC Leadership Chair in Aboriginal Environmental Health—BSc MPhil (Hong Kong) PhD (London)
- Chasteauneuf, Colin, Assistant Professor, Education—BEd MEd PhD (Victoria)
- Chen, Jing, Assistant Professor, School of Business—BS (Shanghai) MS (Beijing) PhD (Michigan)
- Chen, Liang, Professor, Computer Science—BSc (Huazhong) PhD (Institute of Software, Academia Sinica)
- Chipeniuk, Raymond, Adjunct Professor, Planning and Outdoor Recreation, and Tourism Management—BA Hons (McGill) MA (Toronto) MPI (Ottawa) PhD (Waterloo)
- Choi, Sungchul, Assistant Professor, School of Business—BBA (Pusan) MBA (Pusan) PhD (Alberta)
- Chowdhury, Shankar, Assistant Professor, Health Sciences—BSc MS (Bangladesh) MSc PhD (Guelph)
- Choyton, Vinay, Assistant Professor, Chemistry—BSc Hons (Mauritius) PhD (Simon Fraser)

- Clarke, Caroline, Instructor, International Studies—BA (Hons) (Trent) MA PhD (Kent)
- Cloutier, Yvon, Assistant Professor, Education—BA (Waterloo) PhD (Ottawa)
- Cole, Dana, Assistant Clinical Professor, Northern Medical Program—BSc Pharm (Dalhousie) PharmD (British Columbia)
- Connell, David, Assistant Professor, Planning—BA (Toronto) BComm Hons (Windsor) MBA (Windsor) PhD (Guelph)
- Correale, Heather, Assistant Professor, Nursing—BScN (British Columbia) MSc (Northern British Columbia)
- Cousineau, Stephanie, Assistant Professor, History—BA Hons (Calgary) MA (New Brunswick) PhD (Calgary)
- Coxson, Darwyn, Professor, Ecosystem Science and Management—BSc (Lethbridge) PhD (McMaster)
- Cozzetto, Don, Professor, Political Science—BA (Notre Dame) MS (Carleton) PhD (Virginia Polytechnic Institute and State University)
- Croft, Elizabeth, Assistant Professor, School of Business—BA (British Columbia) MBA (York & Laval) PhD (British Columbia)
- Cronshaw, Steven, Professor, Business —BA BComm (Saskatchewan) MA PhD (Akron)
- Curry, John, Associate Professor, Planning—BSc Hons (McGill) MA (Waterloo) PhD (British Columbia) MCIP
- Dawson, Russell, Associate Professor, Ecosystem Science and Management, and Canada Research Chair, Avian Ecology—BSc PhD (Saskatchewan)
- Dayanandan, Ajit, Assistant Professor, Economics—MA MPhil (Kerala) PhD (Sydney)
- Deo, Balbinder, Assistant Professor, School of Business—BSc MSc (Amritsar) MBA (Shimla) PhD (Ludhiana and Manitoba)
- Dery, Stephen, Assistant Professor, Environmental Science and Engineering, and Canada Research Chair, Northern Hydrometeorology—BSc MSc (York) PhD (McGill)
- DeWiel, Boris, Associate Professor, Political Science—BA (Athabasca) MA PhD (Calgary)
- Dickson, Lisa, Assistant Professor, English—BA (Guelph) MA PhD (McMaster)
- Domning, Christine, Senior Lab Instructor, Physics—BSc (British Columbia)
- Donker, Han, Associate Professor, School of Business, MA (Amsterdam) PhD (Tilburg)
- Egger, Keith, Professor, Ecosystem Science and Management—BSc (Calgary) PhD (Victoria)
- Ellis, Robert, Professor, School of Business—BA Hons (Carleton) MA PhD (Waterloo)
- Emmons, Scott, Senior Lab Instructor, GIS—BSc (Northern British Columbia)
- Epp, Edward, Instructor, Education—BFA MA (Saskatchewan) MEd (University of Northern British Columbia)
- Erasmus, Daniel, Senior Lab Instructor, Biochemistry—BSc MSc (Stellenbosch) PhD (British Columbia)
- Erlendson, Rick, Adjunct Professor, Education—BEd (Calgary) MEd EdD (Alberta)
- Espiritu, Aileen, Assistant Professor, History—BA (Carleton) MA PhD (Alberta)
- Facey, Ellen, Associate Professor, Anthropology—BA (Western) PhD (Sydney)
- Fellers, Wendy, Lecturer, School of Business—MBA (Seattle) CGA
- Fiske, Joanne, Adjunct Professor, First Nations Studies—BEd MA PhD (British Columbia)
- Fondahl, Gail, Associate Professor, Geography—BA (Dartmouth College) MA PhD (California, Berkeley)
- Fredeen, Arthur, Associate Professor, Ecosystem Science and Management—BSA Hons (Saskatchewan) PhD (California, Berkeley)
- Fredj, Karima, Assistant Professor, Economics—BA (Tunisia) MSc (Montreal) PhD (McGill)
- Galenza, Bruce, Adjunct Professor, Education—BA MSc PhD (Alberta)
- Galloway, Tracey, Adjunct Professor, Anthropology—BScN BA (Western Ontario) MA (McMaster)
- Garcia, Oscar, Professor, Ecosystem Science and Management, and Endowed Chair, Forest Growth and Yield—MSc (Chile) PhD (Georgia)
- Ge, Xin, Assistant Professor, School of Business—BA MA (Nanjing) PhD (Alberta)
- Geertsema, Marten, Adjunct Professor, Ecosystem Science and Management—BSc MSc (Alberta) PhD (Utrecht)
- George, Anne, Adjunct Professor, Health Sciences—BA (Acadia) MLS PhD (British Columbia)
- Gillingham, Michael, Associate Professor, Ecosystem Science and Management—BSc (McGill) PhD (British Columbia)
- Glen, Carla, Lecturer, English—BA BEd (Regina) MA (Central England)
- Gorrell, Andrea, Assistant Professor, Chemistry—BSc Hons (Texas) PhD (Iowa)
- Grainger, Susan, Adjunct Professor, Ecosystem Science and Management—BHMED (British Columbia) BSc (Oregon)
- Graveline, Fyre Jean, Professor, First Nations Studies—BSW (Calgary) MSW (Manitoba) PhD (Dalhousie)
- Gray, Sarah, Assistant Professor, Northern Medical Program—BSc PhD (Victoria)
- Green, Scott, Associate Professor, Ecosystem Science and Management—AAS (New York) BA (Moody, Chicago) PhD (Wisconsin)
- Greenwood, Margo, Assistant Professor, First Nations Studies—BEd (Alberta) MA (Victoria)
- Guest, Kristen, Assistant Professor, English—MA (Western) PhD (Toronto)
- Hagiwara, Ami, Lecturer, International Studies—BA (Nihon), Teaching Certificate (Nihon)
- Hall, Alida, Senior Lab Instructor, Chemistry—BSc Hons MSc (Orange Free State South Africa)
- Hall, Kevin, Professor, Geography—BA Hons (Swansea) MPhil (Reading) PhD (Orange Free State) DSc (Natal)

## Faculty

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- Halseth, Greg, Professor, Geography and Canada Research Chair, Rural and Small Town Studies—BA (British Columbia) MA PhD (Queen's)
- Hanlon, Neil, Associate Professor, Geography, and Adjunct Professor, Health Sciences—BA (Ryerson) MA PhD (Queen's)
- Haque, Waqar, Professor, Computer Science—BSc Hons (Pakistan) MSc (Alberta) MSc PhD (Iowa State)
- Harder, Henry, Associate Professor, Health Sciences Programs—BEd MA EdD (British Columbia)
- Hardy, Anne, Assistant Professor, Outdoor Recreation and Conservation and Tourism—BSc PhD (Tasmania)
- Hardy, Cindy Associate Professor, Psychology—BA Hons (British Columbia) MA PhD (Concordia) R.Psych
- Harris, Heather, Adjunct Professor, First Nations—BA (Simon Fraser) MA PhD (Alberta)
- Hart, Robert, Adjunct Professor, Social Work—BA (Ottawa) MSW (Toronto)
- Hartley, Ian, Associate Professor, Ecosystem Science and Management—BSc MScF (New Brunswick) PhD (British Columbia)
- Hartman, Bryan, Professor, Education—BA Ed. Ert. MA (British Columbia) PhD (Alberta)
- Hawkins, Chris, Associate Professor, Ecosystem Science and Management, and Endowed Chair, Mixed Wood Ecology and Management—BSc Hons MSc (Simon Fraser) PhD (Australian National)
- Healy, Theresa, Adjunct Professor, Planning and Women's Studies—MA (Saskatchewan) PhD (SFU)
- Healy-Ogden, Marion, Adjunct Professor, Nursing—BSN (British Columbia) MA (Victoria) MEd (Northern British Columbia) RN
- Heard, Doug, Adjunct Professor, Ecosystem Science and Management—BSc (Waterloo) MSc (British Columbia)
- Helle, Steve, Assistant Professor, Environmental Engineering—BEng MEng (McGill) PhD (British Columbia)
- Hemingway, Dawn, Assistant Professor, and Program Chair, Social Work, and Adjunct Professor, Health Sciences—BA (Simon Fraser) MSc MSW (Northern British Columbia)
- Hildahl, Penny, Adjunct Professor, Northern Medical Program—Nursing Education (Calgary)
- Hoffman, Ross, Assistant Professor, First Nations Studies—BA (Hons) (Trent) BEd (Toronto) MEd (Victoria) PhD (Trent)
- Holler, Jacqueline, Associate Professor, History, Women's Studies—BA MA (Simon Fraser) PhD (Emory)
- Horne, Dee, Professor, English—BA (McGill) MA PhD (Toronto)
- Huber, Dezene, Assistant Professor, Ecosystem Science and Management, and Canada Research Chair, Forest Entomology and Chemical Ecology—BSc (Calgary) PhD (Simon Fraser)
- Hughes, Judy, Assistant Professor, Social Work—BSW (St. Thomas) MSW PhD (Toronto)
- Hussein, Ahmed, Professor Emeritus, Physics—BSc (Alexandria) MSc PhD (Alberta)
- Hutchings, Kevin, Associate Professor, English, and Canada Research Chair, Romantic Studies: Environment, Culture, and Representation—BA (Guelph) MA (McMaster) PhD (Hamilton)
- Hyndman, Jennifer, Associate Professor, Mathematics—BMath (Waterloo) MA PhD (Colorado)
- Ivanescu, Cristian, Adjunct Professor, Mathematics—BSc MSc (Bucharest) PhD (Toronto)
- Jackson, Christine, Senior Lab Instructor, Geography—BSc (British Columbia) BEd (Western)
- Jackson, Peter, Professor, Environmental Engineering, Environmental Science, and Environmental Studies—BSc Hons PhD (British Columbia)
- Jensen, Erik, Associate Professor, Physics—BSc Hons (Victoria) PhD (Cambridge)
- Johnson, Chris, Assistant Professor, Ecosystem Science and Management—BSc Hons (Victoria) MSc PhD (Northern British Columbia)
- Johnson, Susan, Assistant Professor, Nursing—BSc (Lincolnshire) PhD (Nottingham)
- Jull, Michael, Adjunct Professor, Ecosystem Science and Management—BSF MSc (British Columbia)
- Keen, Kevin, Associate Professor, Mathematics—BSc Hons (Simon Fraser) MSc (Montreal) PhD (Toronto)
- Keener, Lee, Professor, Mathematics—BA (Amherst College) MSc (Rensselaer Polytechnic) MSc (Oregon) PhD (Rensselaer Polytechnic)
- Kelly, Karen, Adjunct Professor, Community Health Science—RN (Fanshawe) BSN (Alberta) MSc (Queen's) PhD (Alberta)
- Kelm, Mary-Ellen, Adjunct Professor, History—BA (Windsor) MA (Simon Fraser) PhD (Toronto)
- Kitchenham, Andrew, Associate Professor, Education—BEd MEd (Victoria) PhD (James Cook) PhD (Wyoming)
- Klepetar, Amy, Assistant Professor, Nursing—BA (Dartmouth) BSc (John Hopkins) MSc (Utah) RN
- Koehn, Corinne, Assistant Professor, Education—BA MA (Victoria) PhD (Victoria) R. Psych
- Korkmaz, Elie, Professor, Physics—BSc (Lebanese) MSc PhD (Indiana)
- Korpan, Connie, Adjunct Professor, Education—BSc BA MSc PhD (Alberta)
- Kranz, Allan, Senior Lab Instructor, Computer Science—BSc (Northern British Columbia)
- Krehbiel, Richard, Adjunct Professor, Planning—LLB (Saskatchewan)
- Kumar, Pranesh, Professor, Mathematics—MSc PhD (Indian Agricultural Research Institute)
- Kuo, Kuo-Hsing, Assistant Professor, Northern Medical Program,—MD (National Taiwan) MSc PhD (British Columbia)
- Lapadat, Judith, Professor, Education—BA Hons MSc (British Columbia) PhD (Simon Fraser)
- Larisch, Belinda, Senior Lab Instructor, Environmental Engineering—BEng MEng (McGill) PhD (British Columbia)

- Lautensach, Alexander, Assistant Professor, Education—BEd (Toronto) MSc (Guelph) MScT (McMaster) PhD (Otago)
- Laval, Marian, Senior Lab Instructor, Education—MA (Royal Roads)
- Lavallee, Lorraine, Assistant Professor, Psychology—BA MA PhD (British Columbia)
- Lavoie, Josée, Assistant Professor, Health Sciences—BSc MA (McGill) PhD (London)
- Lazenby, Richard, Associate Professor, Anthropology—BA/MA (Simon Fraser) PhD (McMaster)
- Lee, Chow H., Associate Professor, Chemistry and NCIC Research Scientist—BSc Hons (New South Wales, Australia) PhD (Flinders, Australia)
- Lettinga, Neil, Adjunct Professor, History—BA (Calvin College) MA PhD (Johns Hopkins)
- Lewis, Kathy, Professor, Ecosystem Science and Management—BSF (British Columbia) MS (Virginia Polytech and State) PhD (Oregon State)
- Li, Han, Professor, Psychology, and Adjunct Professor, Health Sciences—BEd Hons (Hua-Zhong NU) MPH (North Carolina) MA PhD (Victoria)
- Li, Jianbing, Associate Professor, Environmental Engineering—BASc MSc (Wuhan) PhD (Regina)
- Lindgren, B. Staffan, Professor, Ecosystem Science and Management—MPM PhD (Simon Fraser)
- Low, Barbara, Adjunct Professor, Disability Management—BSR (British Columbia) MPH DrPH (Hons) (Texas)
- MacKinley-Hay, Linda, Assistant Professor, English—BA MA (York) PhD (Manitoba)
- MacLeod, Martha, Associate Professor, Community Health Science, Nursing—BA MA (Toronto) PhD (Edinburgh) RN
- MacMillan, Peter, Associate Professor, Community Health, Education—BSc Ed. Cert. MA (British Columbia), PhD (Alberta)
- MacPhail, Fiona, Associate Professor, Economics—BA Hons MA (Guelph) MA (Sussex) PhD (Dalhousie)
- Madak, Paul, Professor, Education—BA (St. Bonaventure) MA PhD (Manitoba)
- Maher, Patrick, Lecturer, Outdoor Recreation and Tourism Management—BA Honours (Lakehead)
- Mandy, Margot, Associate Professor, Chemistry—BSc Hons (Acadia) MSc PhD (Toronto)
- Manson, Donald, Adjunct Professor, Geography—BA (Dalhousie) MA (Northern British Columbia)
- Marsh, Janet, Adjunct Professor, Ecosystem Science and Management—BA (Laurentian) MS PhD (Arizona State)
- Martel, Gordon, Professor, History—BA Hons (Simon Fraser) MA (Tufts and Harvard) PhD (Toronto)
- Massicotte, Hugues, Associate Professor, Ecosystem Science and Management—BScA (Laval) MSc PhD (Guelph)
- Maurice, Sean, Senior Lab Instructor, Northern Medical Program, BKinesiology (Calgary) PhD (British Columbia)
- McAlpine, Scott, Adjunct Professor, Education—BA Hons MA (Wilfred Laurier) PhD (Calgary)
- McDonald, Jim, Associate Professor, Anthropology—BA Hons (Manitoba) MA (Alberta) PhD (British Columbia)
- McDonald, VernaLynn, Assistant Professor, Education—BA (Alberta) MEd (British Columbia) Ma EdD (US International, San Diego)
- McGill, William, Professor, Ecosystem Science and Management—BSA Hons MSc (Manitoba) PhD (Saskatchewan)
- Meletis, Zoe, Assistant Professor, Outdoor Recreation and Tourism Management—BA (McGill) MScPI (Toronto) PhD (Duke)
- Menounos, Brian, Assistant Professor, Geography—BA MA (Colorado) PhD (British Columbia)
- Michalos, Alex, Professor Emeritus, Political Science—BA (Western Reserve) MA BD PhD (Chicago)
- Michel, Paul, Adjunct Professor, First Nations Studies—MEd (Simon Fraser)
- Migabo, Saphida, Senior Lab Instructor, Ecosystem Science and Management—BSc (Kenya) MSc (Alberta) PhD (Cornell)
- Mills, Antonia, Professor, First Nations—BA Hons PhD (Harvard)
- Mohamed, Moustafa, Associate Professor, Physics—MSc (Cairo) PhD (Alberta)
- Montgomery, Patrick, Adjunct Professor, Mathematics—BSc MSc (Victoria) PhD (Alberta)
- Morris, Jason, Lecturer, Political Science BA (Simon Fraser) MA (Northern British Columbia)
- Morrison, William, Professor, History—BA Hons MA (McMaster) PhD (Western)
- Mothus, Trudy, Lecturer, Education—BEd (Victoria) MEd (Northern British Columbia)
- Munton, Don, Professor, International Studies—BA MA (British Columbia) PhD (Ohio State)
- Murphy, Michael, Associate Professor, Political Science, and Canada Research Chair—BA MA (Western Ontario) PhD (McGill)
- Murray, Brent, Associate Professor, Ecosystem Science and Management—BSc MSc (Alberta) PhD (McMaster)
- Myers, Heather, Adjunct Professor, International Studies—BA Hons (Toronto) MPhil PhD (Cambridge)
- Nepal, Sanjay, Adjunct Professor, Outdoor Recreation and Tourism Management—BA MA (Tribhuvan, Nepal) MSc (Asian Institute of Technology, Thailand) PhD (Bern, Switzerland)
- Ng, Alex, Assistant Professor, School of Business—BSc (British Columbia) MBA (Guelph) PhD (Nova South Eastern)
- Nixon, Gregory, Assistant Professor, Education—BA (Alberta) MEd (Lethbridge) PhD (Louisiana State)
- Nock, Laurie Ann, Adjunct Professor, Anthropology—BA MA (Calgary) PhD (McGill)
- Nolin, Catherine, Assistant Professor, Geography—BA (Calgary) MA PhD (Queen's)
- Nyce, Deanna, Adjunct Professor, First Nations Studies—BEd MEd (British Columbia)

# Faculty

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- Ogborn, Malcolm, Professor, Interdisciplinary Studies—BS MB (Adelaide) CRCP FRCP LMCC CMA PALS
- O'Neill, Gregory, Adjunct Professor, Ecosystem Science and Management—BSc MSc (British Columbia) PhD (Oregon State)
- O'Neill, Linda, Lecturer, Education—BA MEd (Victoria)
- Opio, Chris, Associate Professor, Ecosystem Science and Management—BScF (New Brunswick) MEdes (Calgary) PhD (Alberta)
- Orlando, Julie, Senior Lab Instructor, Psychology—BSc (Alberta) MSc (Northern British Columbia)
- Otter, Ken, Associate Professor, Ecosystem Science and Management—BSc (British Columbia) MSc PhD (Queen's)
- Ouellette, Heather, Senior Lab Instructor, Nursing—BSc MA (Alberta) RN
- Owen, William, Associate Professor, Psychology—BSc Hons (Augustana University College) MA PhD (Saskatchewan)
- Owens, Philip, Associate Professor, Environmental Science, and Endowed Chair, Landscape Ecology—BSc (Coventry) MSc (British Columbia) PhD (Exeter)
- Owen-Williams, Eileen, Associate Professor, Nursing—BSN MN (Washington) PhD (Tennessee)
- Palmantier, Montgomery (Monty), Lecturer, Education—BEd Post Bachelor Diploma (British Columbia) MEd (Simon Fraser)
- Pankratz, John, Assistant Professor, Business—BSA (British Columbia) MSA (Toronto) PhD (Oregon)
- Parker, Katherine, Associate Professor, Ecosystem Science and Management, and Ian McTaggart Cowan Muskwa Kechika Research Professor—BA MA PhD (Washington State)
- Parshotam, Umesh, Senior Lab Instructor, Chemistry—BSc (Texas) PhD (Western)
- Payne, Geoffrey W., Assistant Professor, Northern Medical Program—BSc MSc PhD (Memorial)
- Perrin, Rose, Adjunct Professor, Nursing—BSN (Northern British Columbia)
- Peters, Heather, Assistant Professor, Social Work—BA (Saskatchewan) BSW (British Columbia) MSW (Carleton)
- Petticrew, Ellen, Associate Professor and FRBC Chair in Landscape Ecology, Geography—BSc Hons (Queen's) MSc (British Columbia) PhD (McGill)
- Pierce, Joanna, Assistant Professor, Social Work—BSW MSW (Northern British Columbia)
- Plourde, Guy, Associate Professor, Chemistry—BSc (Quebec) MSc PhD (Manitoba)
- Poelzer, Greg, Adjunct Professor, Political Science—BA (Hons) (Alberta) MA (Carleton) PhD (Alberta)
- Poff, Deborah, Professor, Political Science—BA Hons (Guelph) BA Hons (Queens) MA (Carleton) PhD (Guelph)
- Poirier, Lisa, Assistant Professor, Ecosystem Science and Management—BSc (Guelph) MPM PhD (SFU)
- Polajnar, Desanka, Adjunct Professor, Computer Science—Dipl Ing (Belgrade) MSc (Southern California)
- Polajnar, Jernej, Associate Professor, Computer Science—BSc MSc (Belgrade) PhD (Southern California)
- Potter, Grant, Senior Lab Instructor, Education—BA (Acadia) BEd MEd (British Columbia)
- Precosky, Donald, Adjunct Professor, English—BA (Lakehead) MA (New Brunswick)
- Prkachin, Glenda, Associate Professor, Psychology—BA Hons MA (Carleton) PhD (British Columbia)
- Prkachin, Kenneth, Professor, Community Health Science, Psychology—BA MA PhD (British Columbia) R.Psych
- Procter, Dennis, Assistant Professor, Education—BSc Hons (Canterbury) BEd (Calgary) Ed. Cert. MSc (British Columbia) PhD (Alberta)
- Rader, Stephen, Assistant Professor, Chemistry—BA (Swarthmore College) PhD (California-San Francisco)
- Rahemtulla, Farid, Assistant Professor, Anthropology—BA (Alberta) MA (Toronto) MA PhD (Simon Fraser)
- Randall, James, Professor, International Studies—BA Hons (York) MA PhD (Washington)
- Rans, Peter, Adjunct Professor, English—BA (Hons) (East Anglia) MA (Sheffield) MPA PhD (Dalhousie)
- Rapaport, Eric, Assistant Professor, Planning—BSc (Madison) MSc PhD (RIT, Stockholm)
- Rea, Roy, Senior Lab Instructor, Ecosystem Science and Management—BS (California State) MSc (Northern British Columbia)
- Reid, Matthew, Assistant Professor, Physics—BSc (Northern British Columbia) MSc PhD (Alberta)
- Reimer, Kerry, Associate Professor, Chemistry—BSc (British Columbia) MSc PhD (Simon Fraser)
- Ringer, Greg, Adjunct Professor, Outdoor Recreation and Tourism Management—BA (Central Florida) MS PhD (Oregon)
- Romanets, Maryna, Assistant Professor, English, Women's Studies—MA (Chernivtsi) PhD (Ukrainian National Academy of Arts and Sciences), PhD (Saskatchewan)
- Rocha, Elizabeth, Adjunct Professor, Psychology—BA (British Columbia) MSc (Northern British Columbia) PhD (Saskatchewan)
- Ross, Campbell, Adjunct Professor, Education—MA (St. Andrews) MA (Queen's) PhD (Alberta)
- Rutherford, Michael, Associate Professor, Environmental Science—BSc Hons (British Columbia) PhD (Alberta)
- Safaei Borojeny, Jalil, Assistant Professor, Economics—BA MA (Shiraz, Iran) PhD (Manitoba)
- Salyers, Vincent, Associate Professor, Nursing—BA MSN EdD (San Francisco) RN
- Sam, Michele A., Assistant Professor, Social Work and First Nations Studies—BA BSW MSW (Lakehead)
- Sanborn, Paul, Associate Professor, Ecosystem Science and Management—BA (Western) MSc (Alberta) PhD (British Columbia)



- Sangha, Dave, Assistant Professor, Social Work—BA BSW MSW (British Columbia)
- Savu, Anamaria, Adjunct Professor, Mathematics—BSc MSc (Bucharest) PhD (Toronto)
- Schmidt, Glen, Associate Professor, BSW Coordinator Social Work—BA BSW (Manitoba) MSW (British Columbia) PhD (Memorial)
- Scholtmeijer, Marian, Instructor, English, Fine Arts—MA (Regina) PhD (Simon Fraser)
- Schorcht, Blanca, Associate Professor, English—BA MA PhD (British Columbia)
- Scott, Charles, Lecturer, School of Business—BA (British Columbia) MA (Waterloo)
- Sedgwick, J. Kent, Adjunct Professor, Geography—BA (Western) MA (McMaster)
- Segal, Alan, Adjunct Professor, Anthropology and English—BA (Sir George Williams) MA (New York) PhD (British Columbia)
- Sekhon, Devinder Singh, Adjunct Professor, Education—BSc (Punjab) MSc (Kurukshetra) MS (California) PhD (Columbia Pacific) PhD (Alberta)
- Semple, Rhonda, Adjunct Professor, Women's Studies—BSc (Calgary), BA Hons, MA (Alberta), PhD (Kings College, London)
- Shao, Pei, Assistant Professor, School of Business, —BA (Peking) MA (Leeds) MA PhD (York)
- Sharp, Karen, Lecturer, First Nations Studies—BA (Radford) MA (Utah)
- Shegelski, Mark, Professor, Physics—BSc Hons (Calgary) MSc PhD (British Columbia)
- Shenk, Jean, Senior Lab Instructor, Nursing—RN
- Shoveller, Jean, Adjunct Professor, Health Sciences—BSc MA (Dalhousie) PhD (British Columbia)
- Shrimpton, Mark, Associate Professor, Ecosystem Science and Management—BSc (Victoria) MSc PhD (British Columbia)
- Shultis, John, Associate Professor, Outdoor Recreation and Tourism Management—BSc Hons (Trent) PhD (Otago)
- Siakaluk, Paul, Assistant Professor, Psychology—BA Hons (Calgary) MSc (Calgary) PhD (Alberta)
- Sinclair, Finlay, Adjunct Professor, Planning—BA (SFU) MCIP
- Simon, Patryk, Senior Lab Instructor, Nursing—BSN (Northern British Columbia)
- Simms, Judith, Senior Lab Instructor, Northern Medical Program—BSc (Memorial)
- Smith, Angèle, Assistant Professor, Anthropology—BA (Toronto) MA (McMaster) PhD (Massachusetts)
- Smith, Heather, Associate Professor, International Studies—BA (Alberta) MA PhD (Queen's)
- Smith, Karyn, Senior Lab Instructor, Nursing—RN BSN (New Brunswick)
- Snadden, David, Northern Medical Program, MB ChB (Dundee) MCISc (Western Ontario) MD (Dundee)
- Sommerfeld, Anne, Senior Lab Instructor, Health Sciences—HBSn (Lakehead) RN
- Spurrell, Lloyd, Associate Professor, School of Business—BA Hons (Calgary) MSc (Calgary), PhD (Nebraska)
- Stark, Martha, Adjunct Professor, Chemistry—BA (Swarthmore) PhD (San Francisco, California)
- Stevenson, Susan, Adjunct Professor, Ecosystem Science and Management—BA (Swarthmore) MSc (British Columbia)
- Straussfogel, Debra, Associate Professor, Geography—BS MS PhD (Penn State)
- Stuart-Clarke, Patricia, Adjunct Professor, Northern Medical Program—Business Administration (College of Fraser Valley)
- Sui, Jueyi, Associate Professor, Environmental Engineering—BEng MEng (Hefei) DrIng (Germany)
- Summerville, Tracy, Assistant Professor, Political Science—BA Hons MA (Western) PhD (Laval)
- Swainger, Jonathan, Associate Professor, History—BA (Lethbridge) MA (Calgary) PhD (Western)
- Tait, Robert, Professor, Psychology —BA MA (Queen's) PhD (Iowa)
- Tallman, Rick, Assistant Professor, School of Business—BSc (Manitoba) MBA (Toronto) Marketing Management Certificate (Western) PhD (Manitoba)
- Tam, Dora, Adjunct Professor, Social Work—BSW PgDip SW (Hong Kong Polytechnic) MSW (Manitoba) PhD (Calgary)
- Tamang, Ritenda, Assistant Professor, Anthropology—MA (Tribhuvan) MA (Western Sydney) PhD (California Institute)
- Tan, Hongping, Assistant Professor, School of Business—BA (Hubei) MA (Wuhan) PhD (Queens)
- Tang, Kwong, Adjunct Professor, Social Work—BSc (Hons) MSW (Hong Kong) MSc (London) PhD (California at Berkeley)
- Tang, Youmin, Associate Professor and Canada Research Chair, Environmental Science—BSc MSc (Nanjing) PhD (British Columbia)
- Thien, Deborah, Adjunct Professor, Geography—BA (Victoria) MA (Northern British Columbia) PhD (Edinburgh)
- Thompson, Doug, Senior Lab Instructor, Ecosystem Science and Management—BSc MSc (Northern British Columbia)
- Thring, Ron, Professor, Chemistry, Environmental Engineering, and Environmental Science—BSc (Botswana and Swaziland) MSc (Bradford UK) MSc (Saskatchewan) PhD (Sherbrooke)
- Transken, Si Chava, Associate Professor, Social Work, Women's Studies—BA BSW (Laurentian) MA PhD (Toronto)
- Tyrras, Nicholas, Assistant Professor, International Studies—BA MA (Waterloo) PhD (British Columbia)
- Usman, Lantana, Assistant Professor, Education—Ed. Cert. BEd MBA MEd (Ahmadu Bello) PhD (Alberta)
- Vaillancourt, Anita, Adjunct Professor, Social Work—BSW Hons (Laurentian), MSW (Calgary)
- van der Pol, Theo, Lecturer, School of Business—BComm (McGill) MBA (Dalhousie) MMM CMA
- Voaklander, Don, Adjunct Professor, Community Health Science—BPE (Alberta) MSc (Queen's) PhD (Alberta)

## Faculty

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- Wagner, Shannon, Assistant Professor, Disability Management—BA MSc PhD (Northern British Columbia)
- Wall, Sharon, Assistant Professor, History—BA (Hons) MA (Queens) PhD (York)
- Wallin, Kimberly, Adjunct Professor, Ecosystem Science and Management—BA (Minnesota-Twin Cities) MS PhD (Wisconsin-Madison)
- Walters, Samuel, Professor, Mathematics—MA PhD (Dalhousie)
- Wang, Baotai, Associate Professor, Economics—BA MA (People's University of China) MA (Windsor) PhD (Dalhousie)
- Wang, Jean, Senior Lab Instructor—HPCP BSc Hons (Ocean University) MSc (Manitoba) PhD (Manitoba)
- Ward, Arlene, Adjunct Professor, Disability Management—BSc (British Columbia) MSc (Calgary)
- Wheate, Roger, Associate Professor, Geography/GIS Coordinator—BSc Hons (St Andrews) MA (Queen's) PhD (St Andrews)
- Whitcombe, Todd, Associate Professor, Chemistry—BSc Hons PhD (Victoria)
- Wilkening, Ken, Associate Professor, International Studies—BA MS PhD (U Wisconsin Madison)
- Wilkerson, Orland, Assistant Professor, Environmental Science and Planning—BA (Abilene) BSc PhD (Victoria)
- Williams, Lynda, Senior Lab Instructor, Nursing—BA (Victoria) MLS (Toronto) MSc (McMaster)
- Wilson, Gary, Assistant Professor, Political Science—BA (Carleton) MA PhD (Toronto)
- Wint, Eleanor, Assistant Professor, Social Work—BSc (West Indies) MSW (Boston College) PhD (West Indies)
- Wong, William, Assistant Professor, Psychology—BA MA PhD (Victoria)
- Wood, Hiroe, Lecturer, International Studies
- Wright, Pamela, Associate Professor, Outdoor Recreation and Tourism Management—BSc (Lakehead) MSc (Ohio State) PhD (Ohio State)
- Young, Jane, Assistant Professor, Ecosystem Science and Management—BSc (York) MSc (Guelph) PhD (Toronto)
- Young, John, Assistant Professor, Political Science—BA Hons (Alberta) MA (Carleton) PhD (Toronto)
- Zahir, Saif, Associate Professor, Computer Science—ME (Wisconsin) PhD (Pittsburgh)
- Zimmer, Lela, Assistant Professor, Community Health and Nursing—Dipl Nursing (BCIT) BScN (Northern British Columbia) PhD (Alberta)

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# Officers of the University

## UNBC Board of Governors

Dr. Don Cozzetto	President	Mr. Shane Hartman	Elected Graduate Student Member
Dr. Alex Michalos	Chancellor	Ms. Linda Chipesia	Order-in-Council Appointment (First Nations)
Dr. Donald Rix	Board Chair - Order-in-Council Appointment	Mr. William Lynch	Order-in-Council Appointment (Alumni & College of New Caledonia Region)
Ms. Charmaine Crooks	Order-in-Council Appointment	Mr. Gary Townsend	Order-in-Council Appointment (Cariboo Regional District Region)
Vacant	Vice-Chair, Order-in-Council Appointment (Alumni)	Mr. Wayne Daylen	Order-in-Council Appointment (Northern Lights College Region)
Dr. Lee Keener	Elected Faculty Member	Ms. Dawn Martin	Order-in Council Appointment (Northwest Community College Region)
Dr. William Owen	Elected Faculty Member		
Mr. Doug Carter	Elected Staff Member		
Mr. Kyle Guy	Elected Undergraduate Student Member		

## Senate

Dr. Alex C. Michalos—Chancellor  
Dr. Don Cozzetto—President and Vice-Chancellor and Chair of Senate  
Dr. James Randall—Acting Provost and Vice-Chair of Senate  
Dr. Gordon Martel—Acting Dean, College of Arts, Social, and Health Sciences  
Dr. William McGill—Dean, College of Science and Management  
Dr. Ian Hartley—Associate Dean, Graduate Programs  
Mr. Dennis Macknak—Director, Continuing Education  
Ms. Alison Nussbaumer—University Librarian  
Ms. Kathleen Kielly—Registrar and Secretary to Senate (non-voting)

## College of Arts, Social and Health Sciences Faculty Members

Ms. Dawn Hemingway  
Dr. Jacqueline Holler  
Dr. Han Li  
Dr. Jalil Safaei Borojeny  
Dr. Kevin Hutchings  
Dr. Shannon Wagner  
Dr. Eileen Owen-Williams  
Vacant

## College of Science and Management Faculty Members

Dr. David Casperson  
Dr. Robert Ellis  
Dr. Jennifer Hyndman  
Dr. Erik Jensen  
Dr. Jianbing Li  
Dr. Matt Reid  
Dr. Stephen Dery  
Dr. Eric Rapaport

## Faculty Members at Large

Ms. Eleanor Annis  
Vacant

## Students - Undergraduate

Gareth Hopkins  
Dacia Kimmie  
Thomas Knudsen  
Trevor Shaw  
Hoda Samadi  
Devan C. Tasa

# Officers of the University

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## Students - Graduate

Julius Bankole  
Elizabeth Sharp  
Vacant

## Alumni

Helen Domshy  
Erin Kinghorn  
Rheanna Robinson  
Matt Thomson

## WW'N Representative

Deanna Nyce

## Lay Senators (Regional Representatives)

Bruce Simard (NLC Region)  
Vacant (Aboriginal Representative)  
Vacant (NWCC Region)  
Vacant (CNC Region)

## Administrative Officers

*President and Vice Chancellor*—Don Cozzetto, BA (Notre Dame) MS (Carleton) PhD (Virginia Polytechnic Institute and State University)  
*Provost (Acting)*—James Randall, BA Hons (York) MA PhD (Washington)  
*Vice-Provost Medicine*—David Snadden, Northern Medical Program, MB ChB (Dundee) MCISc (Western Ontario) MD (Dundee)  
*Vice-Provost Research & Graduate Programs (Acting)*—Ron Thring, BSc (Botswana and Swaziland) MAsc (Bradford UK) MSc (Saskatchewan) PhD (Sherbrooke)  
*Associate Vice-Provost of Research (Health)*—Malcolm Ogborn, BS MB (Adelaide)  
*Dean of the College of Arts, Social and Health Sciences (Acting)*—Gordon Martel, BA Hons (Simon Fraser) MA (Tufts and Harvard) PhD (Toronto)  
*Dean of the College of Science and Management*—William McGill, BSA Hons MSc (Manitoba) PhD (Saskatchewan)  
*Dean of Student Success and Enrollment Management*—Paul Madak, BA (St. Bonaventure) MA, PhD (Manitoba)  
*Associate Dean of Graduate Programs*—Ian Hartley, BSc MScF (New Brunswick) PhD (British Columbia)  
*Registrar and Secretary to Senate*—Kathleen Kielly, BA (Alberta)

## University Administrative Officers

### Office of University Advancement

*Executive Director*—Allan Berezny, BA MA (McGill) MPA (Queen's)  
*Advancement Officer, Research*—Vacant  
*Advancement Officer, Individual and Community Giving*—Davida Stafford, BComm (Northern British Columbia) CA

### Athletics

*Athletic and Recreation Coordinator*—Len McNamara, BPE (British Columbia)

### Bookstore

*Manager*—Mardeana Berg

### Continuing Education

*Director*—Dennis Macknak, BA Hons MA (Saskatchewan)

### Office of Communications

*Director of Media and Public Relations*—Rob van Adrichem, BA (Northern British Columbia)

### Information Technology Services

*Director*—Vacant

### Facilities

*Director Campus Planning and Capital Projects*—Godfrey Medhurst  
*Director of Facilities Management*—Shelley Rennick, BComm MNRES (Northern British Columbia)

### Finance

*Chief Financial Officer*—Eileen Bray, CMA  
*Director, Finance and Budgets*—Colleen Smith, BComm Hons (Co-op) (Memorial) CA  
*Financial Services and Systems Manager*—Leanne Murphy, CMA, BBA (Thompson Rivers University)  
*Treasury Services Manager*—William Chew, BA, Lic. Acct. (British Columbia), CIM

### First Nations Centre

*Director*—Paul Michel, MEd (Simon Fraser)

### Health and Safety Office

*Health and Safety Manager*—Peter Hickey, BGS (Simon Fraser)  
*Occupational Risk/Safety Coordinator*—Mark Egan

## Human Resources

*Director*—Mike Knudson, MBA (Simon Fraser), MIR (Toronto), BA Hon (Carleton)

## Purchasing, Contract and Risk Management

*Director*—Sheila Keith

## Office of Regional Operations

*Director*—Dennis Macknak, BA Hons MA (Saskatchewan)

*Regional Chair, Northwest*—Judith Lapadat, BA Hons MSc (British Columbia) PhD (Simon Fraser)

*Regional Chair, Peace River–Liard*—Orland Wilkerson, BA (Abilene Christian) BSc PhD (Victoria)

*Regional Chair, South Central*—Blanca Schorcht, BA MA PhD (British Columbia)

## Office of the Registrar

*University Registrar and Secretary to the Senate*—Kathleen Kielly, BA (Alberta)

*Awards, Financial Aid Co-ordinator*—Linda Fehr

## Student Career Centre

*Co-ordinator*—Ryan Bennett, PE (Alberta) Human Resources Mgmt. Cert (Royal Roads)

## Student Success

*Director of Student Success*—Carolyn Russell BA (Northern British Columbia)

*Manager, Student Recruitment and Student Advising*—Claudette Gouger—BA (Northern British Columbia)

*Manager, Wellness Centre*—Greg Beattie, BSW (Victoria) MSW (Dalhousie)

*Housing and Residence Life Manager*—Glendon Scott

*Learning Skills Centre Coordinator*—Lyn Benn, BA (Avensland University of Technology) MEd (Queensland)

*Disabilities Advisor*—Maureen Hewlett, BA Hons (Lakehead), MSc (Northern British Columbia)

## University Library

*University Librarian*—Alison Nussbaumer, BA MLS (Alberta)

*Associate University Librarian*—Jo Ann Murphy, BA (Lethbridge) MLIS (Alberta)

*Instructor/Data Librarian*—Gail Curry, BSc Hons (McGill) MLS (British Columbia)

*Manager Access and Information Services*—Nancy E. Black, BA (Waterloo) MLS (Dalhousie)

*Acquisitions Librarian*—Joanne Matthews, BA BLS (Alberta)

*Catalogue Librarian*—Eleanor Annis, BA (Lethbridge) MLIS (Western Ontario) MA (Leicester)

*Electronic Services Librarian*—TBA

*Head, Archives and Special Collections*—Ramona Rose, BA (Memorial MMS) MA (British Columbia)

*Education Librarian*—Heather Empey, BA (Augustana University College) MLIS (Alberta)

*Northern Health Sciences Librarian*—Trina Fyfe, BA (Waterloo) MIST (Toronto)

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# Degrees

## Undergraduate Programs

### Bachelor of Arts (BA)

#### Majors offered:

Anthropology\*/\*\*  
Anthropology/Geography Joint Major  
Economics  
Economics/Political Science Joint Major\*  
English\*  
English/History Joint Major\*  
English/Political Science Joint Major\*  
English/Women's Studies Joint Major\*  
Environmental Studies\*  
First Nations Studies\*  
First Nations Studies/Women's Studies Joint Major\*  
General Arts  
Geography\*  
History\*/\*\*  
History/Political Science Joint Major\*  
History/Women's Studies Joint Major\*  
International Studies\*/\*\*  
International Studies/Political Science Joint Major\*  
Northern Studies\*  
Political Science\*  
Political Science/Women's Studies Joint Major  
Public Administration and Community Development  
Nature-Based Tourism Management\*  
Women's Studies

### Bachelor of Applied Science (BASC)

Environmental Engineering\* (UBC/UNBC Joint Degree)

### Bachelor of Commerce (BComm)

#### Majors offered:

Accounting\*  
Finance\*  
General Business\*  
Human Resources Management  
International Business\*  
Marketing\*

### Bachelor of Fine Arts (BFA)

Fine Arts and Creative Writing (Emily Carr/UNBC Joint Degree)

### Bachelor of Health Sciences (BHSc)

#### Majors offered:

Biomedical Studies  
Community and Population Health – Aboriginal and Rural Health  
Community and Population Health – Environmental Health

### Bachelor of Education

Elementary (K-7)  
Secondary (8-12)

### Bachelor of Planning (BPI)

#### Majors offered:

Natural Resources Planning  
Energy Specialization (Fort St. John only)  
Northern and Rural Community Planning  
First Nations Planning

### Bachelor of Science (BSc)

#### Majors offered:

Biology\*  
Biochemistry and Molecular Biology\*  
Chemistry\*  
Chemistry/Computer Science Joint Major\*  
Chemistry/Mathematics Joint Major\*  
Chemistry/Physics Joint Major\*  
Computer Science\*  
Computer Science/Mathematics Joint Major\*  
Computer Science/Physics Joint Major\*  
Economics/Mathematics Joint Major\*  
Environmental Science\*  
Geography\*  
(Integrated) Science\*  
Mathematics\*  
Mathematics/Physics Joint Major\*  
Natural Resources Management – Forest Ecology and Management\*/\*\*  
Natural Resources Management – Outdoor Recreation and Conservation\*  
Natural Resources Management – Wildlife and Fisheries\*  
Physics\*  
Psychology\*/\*\*

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\* Co-op Education Programs

\*\* Honours Programs

### **Bachelor of Science in Nursing (BScN)**

Northern Collaborative Baccalaureate Nursing Program (CNC/UNBC Collaborative Degree Program); (NWCC/UNBC Collaborative Degree Program)  
Post-Diploma Baccalaureate Nursing Program

### **Bachelor of Social Work**

Child Welfare Specialization  
First Nations Specialization

### **Northern Medical Program (MD)**

(a part of UBC's Faculty of Medicine distributed medical program between UBC, UNBC, and UVIC)

### **Minor Programs**

Anthropology  
Biochemistry  
Biology  
Biology and Conservation  
Chemistry  
Earth Sciences  
Economics  
English  
Environmental Planning  
Environmental Science  
Environmental Studies  
First Nations  
Forest Recreation  
General Business  
Geographic Information Systems (GIS)  
Geomorphology  
Global Environmental Change  
History  
Human Geography  
International Studies  
Mathematics  
Natural Resources Planning and Operations  
Northern Studies  
Outdoor Recreation and Tourism Management  
Philosophy  
Physical Geography  
Physics  
Political Science  
Psychology  
Russian Studies  
Social Dimensions of Natural Resources Management  
Women's Studies

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## **Diploma and Certificate Programs**

### **Diploma Programs (Dip)**

#### **First Nation Diploma Programs:**

Aboriginal Health Sciences  
First Nations Language

#### **Post-Baccalaureate Diplomas:**

Curriculum and Instructional Studies  
Montessori Education

### **Certificate Programs (Cert)**

#### **First Nation Certificate Programs**

Aboriginal Community Resource Planning  
Aboriginal Health Sciences  
First Nations Language  
First Nations Public Administration  
General First Nations Studies  
Métis Studies  
Nisga'a Studies  
Traditional Environmental Knowledge

#### **Nursing Certificate Program**

Rural and Northern Nursing

#### **Public Administration Certificate Program**

Public Administration

#### **Social Work Certificate Program**

Child Welfare (See Social Work Program)

## Degrees: Graduate Programs

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### Graduate Programs

Business Administration (MBA)  
Community Health Science (MSc)  
Development Economics (MA)  
Disability Management (MA)  
Education (MEd)

- Counselling
- Multidisciplinary Leadership

English (MA)  
First Nations Studies (MA)  
Gender Studies (MA)  
History (MA)  
Interdisciplinary Studies (MA) (MSc)  
International Studies (MA)

- Global Environmental Policy
- International Development
- Regional Relations

Mathematical, Computer, and Physical Sciences (MSc)

- Chemistry
- Computer Science
- Mathematics
- Physics

Natural Resources and Environmental Studies (MA)

- Geography
- Environmental Studies
- Tourism

Natural Resources and Environmental Studies (MNRES)  
Natural Resources and Environmental Studies (MSc)

- Biology
- Environmental Science
- Forestry
- Geography
- Outdoor Recreation and Tourism Management

Natural Resources and Environmental Studies (PhD)  
Nursing (MScN, MScN:FNP)  
Political Science (MA)  
Psychology (MSc, PhD)  
Social Work (MSW)

### 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. If a student is subsequently admitted to a Graduate program, graduate courses used for credit toward the undergraduate program cannot be used for credit toward the graduate program.

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 note that preclusions stated in the Graduate Academic Calendar will apply. Students are responsible for being aware of preclusions in the Graduate Academic Calendar for cross-listed undergraduate/graduate courses.

Please see the Graduate Studies Officer for further information.

Simultaneous enrollment in a graduate program and an undergraduate program, a diploma 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 or visit the Graduate Studies website online at: [www.unbc.ca/graduatestudies/](http://www.unbc.ca/graduatestudies/).



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# Admissions

## Enrollment Management at UNBC

The University of Northern British Columbia is committed to providing the best possible educational experience to its students. While some areas of academic study are available to new students without restriction, to ensure the highest quality learning environment others must be limited in enrollment by the availability of suitable space and instruction. Except for first-entry professional programs, first-year first-entry students are admitted to UNBC by their degree outcome of interest, and must indicate at least their first choice of Degree Group (for example Bachelor of Arts or Bachelor of Science) on their application form. Until such time as students declare a major, they will be assigned either of the two College Deans based upon their declared degree group. Once admitted, if the Major selected would require a transfer between Degree Groups, the approval of the College Dean for the Academic Program including the desired major is required. Transfer from a first-entry professional program to one of the Degree Groups is permitted only by approval of the College Dean for the Academic Program including the desired major.

Transfer students are considered for admission only in the context of a Declaration of Major, and will be admitted, on the basis of space availability and eligibility, by established criteria in the Major of choice.

## 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.

**The online application is available by internet at [www.unbc.ca/apply/](http://www.unbc.ca/apply/).**

To receive an application form, contact the Office of the Registrar by mail, by fax at (250) 960-6330 or by phone (250) 960-6300.

## Application Deadlines

### Canadian Students

General Undergraduate (see Semester Dates and program regulations for professional programs).

May Semester	<b>02 March 2009</b>
September Semester	<b>02 March 2009</b>

**Please note:** While the Canadian Student application deadline for admission is March 2nd for September entry, students are encouraged to apply earlier. Applications received after March 2nd will be considered on the basis of space availability and eligibility, by established criteria in the Degree Group/Major of choice.

January Semester	<b>02 November 2009</b>
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### International Students

September Semester	<b>02 March 2009</b>
January Semester	<b>01 June 2009</b>
May Semester*	

\*Applications are not encouraged for this semester, unless applicants are transferring from a Canadian post-secondary institution.

**Please note:** Applications received after these dates will be processed on the basis of space availability once on-time applications have been allocated.

## Professional & Competitive Entry Programs

(see Program Regulations for Professional Program Admissions)

Fine Arts	<b>02 February 2009</b>
Social Work	<b>02 February 2009</b>
Environmental Engineering	<b>02 March 2009</b>
Health Sciences	<b>02 March 2009</b>
Education	<b>16 March 2009</b>
Nursing	<b>31 March 2009</b>

# Admissions: Degree Groups

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## Degree Groups

### Arts

*(leading to the Bachelor of Arts)*

Anthropology  
Anthropology Honours  
Anthropology/Geography  
Economics  
English  
English/History  
English/Political Science  
English/Women's Studies  
Environmental Studies  
First Nations Studies  
First Nations Studies/Women's Studies  
General Arts  
Geography (BA)  
History  
History Honours  
History/Political Science  
History/Women's Studies  
International Studies  
International Studies Honours  
International Studies/Political Science  
Northern Studies  
Political Science  
Political Science/Women's Studies  
Public Administration and Community Development  
Nature-Based Tourism Management  
Women's Studies

### Science

*(leading to the Bachelor of Science or Bachelor of Planning)*

Biology  
Biochemistry & Molecular Biology  
Chemistry  
Chemistry/Computer Science  
Chemistry/Mathematics  
Chemistry/Physics  
Computer Science  
Computer Science/Mathematics  
Computer Science/Physics  
Economics/Mathematics  
Environmental Science  
Environmental Science Honours  
Geography (BSc)  
(Integrated) Science  
Mathematics  
Mathematics/Physics  
Natural Resources Management  
    Forest Ecology and Management  
    Forest Ecology and Management Honours  
    Outdoor Recreation and Conservation  
    Wildlife and Fisheries  
Physics  
Environmental Planning (BPI)  
    Energy Specialization (Ft. St. John)  
    First Nations Planning  
    Natural Resources Planning  
    Northern and Rural Community Planning  
Psychology  
Psychology Honours

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### Business Administration

*(leading to the Bachelor of Commerce)*

Accounting  
Finance  
General Business  
Human Resources Management  
International Business  
Marketing

### First Entry Professional Programs

*(leading to the Bachelor of Science in Nursing)*

Northern Collaborative Baccalaureate Nursing Program

### Competitive Entry Programs

Environmental Engineering (BASc)  
Fine Arts and Creative Writing (BFA)  
Health Sciences (BHSc)  
    Biomedical Studies  
    Community and Population Health- Aboriginal and Rural  
    Health  
    Community and Population Health- Environmental Health

*Note: Table excludes second entry professional programs  
(Education, Social Work), Diploma and Certificate programs.*

## Admission Requirements by Degree Groups

Bachelor of Arts	Bachelor of Fine Arts <i>see program regulations</i>	Bachelor of Commerce	Bachelor of Planning & Bachelor of Science	Nursing**** <i>see program regulations</i>	Bachelor of Health Sciences <i>see program regulations</i>	Environmental Engineering <i>see program regulations</i>
English 12	English 12  Portfolio	English 12	English 12	English 12  Principles of Mathematics 11 (65% minimum) Chemistry 11 or equivalent (65% minimum)	English 12  Principles of Mathematics 11	English 12  Principles of Mathematics 12
Three Approved Grade 12 Courses*	Three Approved Grade 12 Courses*	Three Approved Grade 12 Courses*	Three Approved Grade 12 Courses*	Biology 12 (65% minimum) Two other approved* Grade 12 courses	Three Approved Grade 12 Courses*	Two provincially examinable Science 12 courses: Biology 12 Chemistry 12 Physics 12 (recommended)
					*** Biomedical Studies <i>see program regulations</i>	Chemistry 11 and Biology 11 <i>see program regulations</i>
A fifth Grade 12 course**	A fifth Grade 12 course**	A fifth Grade 12 course**	A fifth Grade 12 course**	A fifth Grade 12 course**	A fifth Grade 12 course**	A fifth Grade 12 course**
Minimum admission average 65%	Minimum admission average 67%	Minimum admission average 65%	Minimum admission average 65%	Minimum admission average 65%	Minimum admission average 65%	Minimum admission average 75%

\* **Approved Grade 12 Courses:** 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, Writing. Approved Advanced Placement courses: AP History of Art; AP General Biology; AP Calculus AB or BC; AP Chemistry; AP Computer Science A or AB; AP Microeconomics/Macroeconomics; AP English; AP Environmental Science; AP French; AP German; AP United States History; AP European History; AP Human Geography; AP Latin; AP Music Theory; AP Physics B and/or Physics C; AP Psychology; AP Spanish Language; AP Spanish Literature; AP Statistics; AP US Government and Politics; AP World History. Approved International Baccalaureate Courses: IB Biology; IB Chemistry; IB Computer Science; IB Economics; IB English Language A; IB Environmental Systems; IB French Language A and/or French Language B; IB Geography; IB German; IB History; IB History-Asian; IB History-European; IB Mathematics; IB Further Mathematics; IB Music; IB Philosophy; IB Physics; IB Psychology; IB Social and Cultural Anthropology; IB Spanish A and/or Spanish B.

\*\* **A fifth Grade 12 Course:** Any other of the approved Grade 12 courses, and also 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, CAPP 12, etc.), or any Advanced Placement or International Baccalaureate courses.

\*\*\* Students interested in pursuing the BSc Biomedical Studies Major are strongly encouraged to take Principles of Math 12, Chemistry 12 and Biology 12 before entering the Program.

\*\*\*\* UNBC's partner institutions, the College of New Caledonia (CNC) & Northwest Community College (NWCC) are processing admissions to the Northern Collaborative Baccalaureate Nursing Program. If you wish to apply to our Prince George or Quesnel campuses, please apply through CNC: [http://www.cnc.bc.ca/Exploring/Applying\\_to\\_CNC.htm](http://www.cnc.bc.ca/Exploring/Applying_to_CNC.htm); if you wish to apply to our Terrace campus, please apply through NWCC at: [http://www.nwcc.bc.ca/AdmissionRegistration/admission\\_application.cfm](http://www.nwcc.bc.ca/AdmissionRegistration/admission_application.cfm)

*Note: Table excludes second-entry professional programs (Education, Social Work).*

# Admissions: BC and Yukon High Schools

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## Admission Requirements for Applicants from BC and Yukon High Schools

Successful completion of an approved grade 12 program leading to graduation with an acceptable BC/Yukon high school average calculated on the basis of the five best grade 12 courses from the above list, for the Degree Group or First Entry Professional Program of your choice (see also "Special Entry").

## 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 to applicants who are considered exceptional. 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

Applicants who are required to submit official BC High School transcripts, should contact the BC Ministry of Education:

Ministry of Education – Transcripts  
PO Box 9886 Stn Prov Govt  
Victoria, BC V8W 9T6  
General Information Phone: (250) 356-2432

Or visit the Ministry of Education website:  
<http://www.gov.bc.ca/bced>

## 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 (available online at [www.bccat.bc.ca](http://www.bccat.bc.ca)).

## 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 (available online at [www.bccat.bc.ca](http://www.bccat.bc.ca)).

## British Columbia Adult Graduation Diploma

Applicants must be at least 19 years of age, have successfully completed the BC Adult Graduation Diploma, the appropriate entrance requirements for Degree Group at the Grade 12 level with an overall average of 65% or better. Applicants in this category are not required to complete a fifth grade 12 course as noted in the Admissions Requirement by Degree Group Table.

## Continuing Studies Credit

Certain courses offered through Continuing Studies may earn UNBC credit without the student having to be admitted formally. See “Continuing Studies” under the Services and Facilities section in this calendar or online at [www.unbc.ca/continuing\\_studies](http://www.unbc.ca/continuing_studies).

## 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 from:

- English 30-1
- at least three additional courses selected from the following: Biology 30, Chemistry 30, Language 30, Math 30, Math 31, Physics 30, Science 30, Social Studies 30, World Geography 30, World History 30
- additional level 30 or level 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 from:

- English A30 and B30
- Math A30, or B30, or C30
- at least three additional courses numbered 30 or 30H selected from the following subjects: Biology, Calculus, Chemistry, Computer Science, 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 from:

- 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 Ontario Secondary School Diploma (OSSD), or equivalent, including five grade 12 U or U/C courses with an overall 65% average including:

- Grade 12 U English
- four additional Grade 12 U or U/C courses

All high school courses applied as prerequisites for UNBC courses must be drawn from the “University” designation. Not more than one course proposed for admission may be drawn from the “Arts” category.

# Admissions: Other Canadian Provinces and Territories, Post Secondary

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## Quebec

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

- 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 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 from:

- 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 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 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 from:

- 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 and Labrador

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

- Language 3101 and either Thematic Literature 3201 or Literary Heritage 3202
- Mathematics 3200, 3201 or 3203
- at least one of Biology 3201, Chemistry 3202, Geology 3203, Physics 3204, Earth Systems 3209
- at least one of Advanced Writing 3103, Global Issues 3205 or Geography, History or languages at the 3000 level
- at least two additional credits at the 3000 level
- additional academic course(s) necessary to 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 and a proposed Major must be declared.

Following review and approval of relevant 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 for a particular degree.
2. For admission purposes, a minimum transfer grade point average of 2.0 or C (65%), calculated based on all previous post-secondary institutions attended, is required.
3. Any applicant who has been required to withdraw or has been placed on academic probation by the transferring institution:
  - must wait for three full semesters before being admissible to UNBC, and
  - 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 0.67 or D- (50-52.9%).

5. Failure to declare attendance at any post secondary institution could result in severe disciplinary action by the University and transfer credit will not be considered for transcripts provided in this manner. Information on falsifications may be shared with the Member Institutions of the Association of Registrars of Universities and Colleges of Canada.

### Time Limit for Transfer Credit

Transfer credit normally will not be awarded for courses completed in excess of 10 academic years prior to the date of first UNBC registration. Students who wish to have such 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.

Please note: UNBC students wishing to complete courses at another university to transfer back to a degree or certificate at UNBC must obtain a Letter of Permission before taking these courses. For more information see Academic Regulation #18 in this Calendar.

### Admission from a BC Community College, University College, and Yukon 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 (65%). 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 0.67 or D- (50–52.9%).

Transfer credit is awarded according to agreements articulated in the BC Transfer Guide (available online at [www.bccat.bc.ca](http://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, applicants must present a minimum CGPA of 2.0 or C (65%).

Transfer credit for articulated courses is awarded at the point of admission. Upon declaration of a major in a related degree program, or direct admission into Nursing or Social Work degrees, students who hold specific Business Administration, Natural Resource Management or Environmental Studies or Nursing or Social Work 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 (65%). No transfer credit will be awarded for any course with a grade of less than 0.67 or D- (50-52.9%).

Individual transfer credit is awarded for course work deemed to be university transferable in the home province on an individual basis. 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.

Transfer credit is awarded towards a relevant UNBC degree program on an individual basis, to a maximum of 30 credits. Exchange programs between the University of Northern British Columbia and other institutions are defined by the terms of formal exchange agreements.

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

All students admitted from a College of Applied Arts and Technology (CAAT) 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 a minimum grade point average of 70% on their course work from the CAAT. Transfer credit will not be awarded to CAAT students who do not have a diploma.

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 minimum grade point average of 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.

# Admissions: Other Categories

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## Other Admission Categories

### Admission from a Canadian University

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 .67 (D-)

### Mature Student Entry

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

- Canadian Citizens or permanent residents of Canada
- out of 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.

### 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.

Normally, special entry students will enroll 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 six credit hours. Failure to achieve the required grade point average will result in further registration being denied. Once admission 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 to a maximum of 30 credits, 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:

- Enroll on a part-time basis at UNBC (less than 9 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 wish to continue their studies beyond 30 credit hours in pursuit of a UNBC credential must re-apply, meet the general admission requirements as stated in the Calendar and, as applicable, declare a Major (see Academic Regulation #21).
2. Applicants whose first language is not English should refer to the section English Language Requirements.
3. Applicants previously or currently 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. Audit courses do not meet prerequisites or course/program requirements.

Students wishing to change from audit to credit status must obtain approval from the instructor. Changes in 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.

### **Dual High School/University Credit**

High school students in grades 12 who are in good standing, and have the recommendation from their principal or guidance counsellor may enroll with UNBC in order to earn credits that can be used jointly as elective credits towards high school graduation and as first year university credit towards a degree. This program is designed to allow high school students the opportunity to gain first hand experience in a university level course while at the same time earning credits towards their high school diploma. High school students who successfully complete a course(s) can also apply the credits earned towards their future university degree. The courses offered to high school students will be first year UNBC courses. In order to qualify for dual credit, the British Columbia Ministry of Education requires that course be approved by the student's home high school before the student registers for the course.

High school students wishing to take a UNBC course to obtain Dual Credit must be in grade 12 and must be in good academic standing at the time of application. In addition, students must obtain the signature of their principal (or guidance counsellor) and a parent or guardian (if under 18 years old) indicating that they are capable of successfully completing a university level course.

While students may take up to three courses from UNBC for Dual Credit, they may only take one course at a time. Upon completion of the course, a transcript will be mailed to the student and to the high school. It should be noted that that successful completion of a Dual High School/University Credit course does not guarantee future admission to UNBC.

### **Admission to a Second Undergraduate Degree**

Students having a recognized first undergraduate degree 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**

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 Students are welcome to consider a Co-operative Education option of their program (see Programs-Co-operative Education).

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 25 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.

## Admissions: Other Categories

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### 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 the paper-based test and at least 230 in the computer based test. UNBC's institutional TOEFL code is 0320.
- **Note:** Applicants taking the new TOEFL exam (September 2005 and beyond) must score at least 89.
- IELTS (International English Language Testing System) score of at least 6.5 in the Academic Reading and Writing Module with no score less than 60.
- LPI (Language Proficiency Index) score of at least 5.
- CAEL (Canadian Academic English Language) Assessment score of at least 70.
- University of Cambridge ESOL grade B on the Certificate of Advanced English (CAE).
- A final grade of 75% (B) or better in English 12 from the British Columbia secondary system.
- A final grade of 75% (B) or better in a University Transferable English course.

In order to be considered valid, these scores must be sent directly from the testing agency/institution to the Office of the Registrar.

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# International Exchange Program

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, grades will be reported by UNBC using a pass/fail grading system and will not be counted towards a student's cumulative grade point average.

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 International Operations.

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.

## Selection Criteria for International Exchange Participants

The Exchange Student Selection Committee 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 participation 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 (3)

- Applicants are asked to present two academic references and one personal reference.
- Academic referees are asked to comment on the student's ability to succeed academically in an exchange.
- 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 preceding 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.

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# Northern Medical Program

The Northern Medical Program is part of UBC's Faculty of Medicine distributed medical program and is a partnership involving three universities: the University of British Columbia (UBC), the University of Northern British Columbia (UNBC), and the University of Victoria (UVic). All students are fully registered at UBC and upon graduation will receive UBC medical degrees. The distributed program was designed to ease the provincial doctor shortage by almost doubling the number of student spaces in BC by 2010, and will enable students at the two distributed sites to study closer to the areas of greatest health need in the province.

In 2004, an additional 24 students were admitted to each of the three programs: the Island Medical Program (IMP) at UVic, the Northern Medical Program (NMP) at UNBC, and the Vancouver-Fraser Medical Program (VFMP) at UBC, with a further 24 students being admitted to VFMP in 2005. Further increases across all sites are being planned during the next 5 years. All students spend the first four months of their medical training in Vancouver, and NMP students spend the remainder of their first two years at UNBC. During the more clinical third and fourth years of the program, students undertake their core clinical education in hospital and community-based settings in northern British Columbia, and have opportunities after this to experience clinical education throughout BC and elsewhere. After successfully completing the four-year MD program, graduates enter residency training across Canada in one of over 50 specialty areas, including Family Medicine. Post-graduate training ranges from two to six years. The UBC Faculty of Medicine also offers a combined MD/PhD program for students who want to pursue a career as a physician scientist.

## UNBC

The University of Northern British Columbia is nestled atop a hill overlooking the city of Prince George and features dramatic award-winning architecture.

Prince George is located in the heart of BC and is rich with many attractions and activities to enjoy year round. The citizens of Prince George are known for their warmth and friendliness. For those who wish to get involved in various activities/events, there are many choices available. The city is rich in history and offers many attractions which, combined with the beauty of its natural surroundings, makes Prince George an ideal location to visit or call home.

## Student Services at UNBC

The University offers an impressive array of student services designed to foster student success. While academic registrations for all medical students are at UBC, Northern Medical Program students are registered as "affiliate students" at UNBC, enabling them to take advantage of all that UNBC has to offer. Student Services include: Advising, Athletics and Recreation Centre; Awards, Financial Aid ; Campus Chaplaincy; Counseling and Career Centre; Disability Services; Health and Wellness Centre; Learning Skills Centre; and orientation programs.

## Faculty of Medicine Regulations

The Northern Medical Program is framed by the same set of academic regulations as the UBC Faculty of Medicine generally, which can be located at the following internet address: [www.students.ubc.ca/calendar/](http://www.students.ubc.ca/calendar/). While students are on campus at UNBC they will, in addition, be bound by the disciplinary regulation of UNBC.

## Required Academic Standards

Applications for admission are considered from candidates who are citizens or permanent residents of Canada and who:

- 1) complete a minimum of 90 credits including the prerequisite courses,
- 2) have achieved a minimum academic standing of 70%, and
- 3) have completed all other application requirements as outlined on the UBC Faculty of Medicine Admissions Web site: [http://www.med.ubc.ca/education/md\\_ugrad/MD\\_Undergraduate\\_Admissions.htm](http://www.med.ubc.ca/education/md_ugrad/MD_Undergraduate_Admissions.htm)

## How to Apply

Admission to the Northern Medical Program is done through the UBC Faculty of Medicine Admissions Office. All hardcopy application documents must be received at the UBC Faculty of Medicine Admissions Office by 4:30 pm PST. To apply for admission and to confirm application deadline dates for the Faculty of Medicine, visit the following internet address: [http://www.med.ubc.ca/education/md\\_ugrad/MD\\_Undergraduate\\_Admissions.htm](http://www.med.ubc.ca/education/md_ugrad/MD_Undergraduate_Admissions.htm)

## Office of the Northern Medical Program

The Office of the Northern Medical Program is responsible for the delivery of the curriculum in northern BC. This includes co-ordination of teaching and research staff, student well-being, and the maintenance of close links with UBC and UVic. Visit the following website for further information: [www.unbc.ca/nmp](http://www.unbc.ca/nmp).

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# Services and Facilities

## Introduction

UNBC is a student-centred university committed to providing students with high quality services. On the Prince George campus, student service operations (Office of the Registrar), Student Enrollment and Success Services, Learning Skills, and First Nations Programs) are located on Telus Student Services Street, a high profile area in the Agora. Most university services are available to students at a distance through our Regional Campuses. Many on-site services are provided through co-operative arrangements with the three northern colleges. In this way, UNBC students 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. Students will find a welcoming, supportive environment, based on mutual respect and a shared commitment to the ideals of the University of Northern British Columbia.

## Academic Advising

Academic Advising is available at UNBC. Services include assistance with course selection and planning, transfer credits, GPA calculation, policies and regulations, graduation, and various student support services. For more information, please contact the Student Advising office at (250) 960-6340 or visit [www.unbc.ca/advising](http://www.unbc.ca/advising).

## Alumni Association

The Alumni Association of UNBC 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.

For additional information, please visit the Alumni Association's web site at <http://www.unbc.ca/alumni> or call (250) 960-5620 or toll free 1-877-WE-R-UNBC.

## Office of University Advancement

The Office of University Advancement is responsible for developing and maintaining long-term relationships with alumni, friends, corporations, small businesses, associations, foundations, and government agencies. The Advancement Office supports the University's priority funding needs and works to ensure a broad base of support for the future through various fund raising initiatives.

The Advancement Office oversees the annual giving, major gifts and planned giving programs, and plans and coordinates special events to recognize the University's donors.

The generous financial and in-kind support and investment UNBC receives from donors helps students support the costs of their education and rewards student achievement. Support from donors also improves the university's educational and recreational facilities, enhances UNBC's teaching and research capacities, supports student success by providing enhanced services, and meets the challenge of improving access to university for the First Nations of northern BC.

Donors interested in establishing new awards are encouraged to contact the Office of University Advancement at 1-866-960-5750 or [advancement@unbc.ca](mailto:advancement@unbc.ca).

## Bookstore

The bookstore's primary role is to stock all required and optional course materials for classes taught at each UNBC campus. You will also find a variety of school supplies and computer accessories. Academic pricing is available on many software packages. A full complement of reference books and study aides are in stock for each semester. Any title not in stock can be ordered. The bookstore is your UNBC logo headquarters. A great selection of UNBC clothing, giftware and novelty items are always available. As well as being the official Timberwolves outlet, the bookstore carries a full line of Alumni products. Visit our web site [www.bookstore.unbc.ca](http://www.bookstore.unbc.ca).

## Centres

### Centre for Teaching, Learning & Technology

The Centre for Teaching, Learning and Technology (CTLT) is committed to supporting the teaching and learning community at UNBC. We are dedicated to helping faculty, staff and graduate students in achieving their goal of delivering the best possible learning experience for students. We are also committed to facilitating and encouraging the development of teaching excellence.

The Centre offers a range of programs and services designed to enhance the practice and scholarship of teaching and learning at UNBC. Support is provided in areas including: e-learning issues; online course design and technical mentoring; face to face faculty and graduate students professional development programs, workshops and conferences; and career mentoring for faculty as teachers.

### Women North Network/Northern FIRE

The Northern FIRE, located at UNBC, is the Centre for Women's Health Research. Northern FIRE 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 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.

### 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). The daycare manager can be contacted at (250) 960-5720 or email [daycare@unbc.ca](mailto:daycare@unbc.ca). For more information please visit the Society website at [www.unbc.ca/daycare/](http://www.unbc.ca/daycare/).

### 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.

### Conference and Events Services

Conference and Events Services offers the facilities and professional staff to make a conference or meeting a huge success. Accommodations, catering, meeting space, audiovisual, and conference management can be handled quickly and efficiently.

For large scale conferences, a full conference management package unique to each event can be provided. Packages include pre-conference services such as web page design, receipt of registration and payments and data management. The mailout of confirmation letters and creation and distribution of conference material for delegates can be managed. During the event staff will be on hand to help with any last minute requirements.

UNBC provides a beautiful setting to create the perfect atmosphere for a variety of events. The campus has an abundance of natural light provided by large atriums and skylights. Built in a park-like setting, the campus offers easy access to many trails and provides fine views of the Rocky Mountains.

### Continuing Studies

Continuing Studies is an integral contributor, and a vital partner, in the learning environment at UNBC. Its vision is to sustain a culture of lifelong learning at the University. Continuing Studies has a professional commitment to contribute collaboratively with all of the University's Academic Programs, and to both lead and serve the community by staying responsive to the needs of the North.

Continuing Studies courses are primarily short in duration and designed to meet the needs of both professional development and/or personal interest. Certain Continuing Studies courses are clearly designated as earning academic credit at UNBC. Credit earned in this manner is unspecified, and is treated as elective credit hours. University admission requirements do not apply to these courses, and students are advised that they will be registered for them on a credit basis unless they direct otherwise at the beginning of the course. Unless otherwise designated, credits earned in this manner are recorded on a Pass basis upon successful completion. Unsuccessful attempts are not recorded. Whether taken for-credit or not-for-credit, the content and requirements of these courses are the same.

For more information, please see the Continuing Studies course catalogue, or visit Continuing Studies online at [www.unbc.ca/continuingstudies](http://www.unbc.ca/continuingstudies).

### 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 Card Photocopiers are conveniently located in the Northwood Winter Garden, Main Floor of the Library, Upper Floor of the Library, and outside Copy Services.

Contact Copy Services at local 6464 or 6466 if any copiers require servicing.

### Cornerstore

The Cornerstore is the convenience store on campus, and it is open evenings and weekends. You will find also UNBC logo items, general reading material, stamps, bus passes, and giftware.

### 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 internal room booking and parking. Facilities is also responsible for security on campus. Security provides a highly visible 24-hour security service, which includes escorting students, staff and faculty to and from the parking lots and residences, and emergency first-aid.

### 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 Smart 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. For further information, visit our web site at [www.unbc.ca/finance\\_dept/](http://www.unbc.ca/finance_dept/).

### First Nations Centre

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 First Nations Centre specializes in services to First Nations students. This centre provides a culturally supportive environment where leadership, spiritual growth and academic excellence are fostered. The First Nations Centre 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, aboriginal peer counselling, helping circle, and a lively program of speakers and cultural activities.

### Food Services

The University has four food outlets: the Food Court, the Northwood Winter Garden Deli, the Starbucks Kiosk, and the Tim Hortons Kiosk.

The Food Court features a wide range of food for all tastes: hot entrées, salads, sandwiches, pizza and pastas, burgers, muffins and pastries, stir fry, gourmet ice cream, plus coffee, tea, pops and juices.

The Northwood Winter Garden Deli, a licensed facility, features sandwiches, pizza, subs, nachos, hot dogs, beef dip, cappuccino, specialty scones, chili, pop and juice.

The Starbucks Kiosk offers a variety of specialty coffee, juices, frappuccino, biscotti, scones, and cookies.

The Tim Hortons Kiosk offers Tim Hortons desserts, specialty coffees, soup and sandwiches.

Both on- and off-campus students can purchase meal and debit plans, accepted at all food outlets on campus.

The catering service offers a range of services including breakfast, lunches, dinners, and receptions.

Food service at UNBC is provided by Chartwells, a member of Compass Group Canada.

### Vending Services

Snack and pop vending machines are located throughout campus. Some machines are equipped to accept the University's Smart Card.

### Geoffrey R. Weller Library

The Geoffrey R. Weller Library collects and provides access to information resources in support of the University's academic programs. The library is located on three floors of the Library Building. The library is open seven days a week during the Fall and Winter Semesters and is closed on all holidays observed by the University. Reference Desk staff offer support to assist students in optimizing their use of library resources. The library's online public access catalogue can be accessed through its web site at <http://lib.unbc.ca>. The library's collection consists of approximately 194,000 books, 985 print journal subscriptions, 28,000 electronic journal subscriptions, 3750 audiovisuals, and over 1,000,000 microforms. Noteworthy resources include an extensive collection of electronic bibliographical and full-text databases, numeric data files, and electronic reference materials; a selection of important microform collections, including regional newspapers, retrospective journals, Statistics Canada and other government publications, ERIC (Educational Resources Information Center) documents, and primary documents available through the Canadian Institute of Historical Micro-Reproductions pre-1920 Monographs and Early Canadiana Online collections and the Gerritsen collection.

UNBC students have timely access to items in other library collections through the library's interlibrary loan service. Instructions for placing interlibrary loan requests are available on the library's web site. The library offers an intensive instruction program aimed at developing students' research skills. This instruction is accomplished through help pages, which are accessible through the library's home page; individual assistance at the Reference Desk; and class sessions booked by faculty.

For more information about library resources and services, please visit the library's web site at <http://lib.unbc.ca>. Contact the Reference Desk (960-6475) for research assistance or the Circulation Desk (960-6613) for questions related to borrowing materials. Regional students should familiarize themselves with the Distance Library Services pages at <http://lib.unbc.ca/pages/services/regional/>.

The Northern British Columbia Archives and Special Collections is an administrative unit of the Geoffrey R. Weller Library and is located on the 4th floor of the Library Building. The Northern B.C. Archives houses materials related to the institutional history of UNBC and the history and culture of Northern British Columbia. The Archives also houses rare book collections and maintains the University's artwork and artifact collections. Contact the Archives at 960-6603 or [archives@unbc.ca](mailto:archives@unbc.ca).

### Human Resources Department

Located at 1022 in the Administration Building, the Human Resources department is staffed by six full-time employees and is responsible for the planning, implementation and management of employee relations, non-faculty recruitment and employment processing, orientation, staff benefits, training and development, equity, diversity, records management, classification and compensation.

The HR department can assist faculty and students with completing hiring forms, and provide information or advice on employment contracts, recruiting processes, and employment standards.

### Information Technology Services

Information Technology Services (ITS) at UNBC provides computing support and infrastructure services to students, faculty, and staff. This service-orientated department maintains microcomputer labs for classroom teaching, research, continuing studies as well as for drop-in usage by students. ITS also maintains and administers the campus fibre optic backbone network, telecommunications and operating systems infrastructure providing services such as e-mail, web services, internet access, telephones, WebCT and other Learning Management Systems. Every UNBC student is provided with a computer account and access to online services for registration, payments, grades, degree audit, scheduling and applications. ITS services include support for the high performance computing facility for faculty research and support for critical main enterprise systems on campus including Banner, FAST, Bookstore, Card Systems, Online Services and UNBC's main web-site [www.unbc.ca](http://www.unbc.ca).

Please direct inquiries to one of the following:

- Faculty IT Support Centre at (250) 960-5680 or send an e-mail to [support@unbc.ca](mailto:support@unbc.ca).
- Staff & Faculty can also log into our support call management system at <http://support.unbc.ca>.
- Student Help Desk at (250)960-5321 or 1-866-960-5321 or email to [labsupport@unbc.ca](mailto:labsupport@unbc.ca) for all student inquiries.

### Educational Media Services

Educational Media Services (EMS) is a division of Information Technology Services (ITS). EMS, alongside the rest of the integrated support services group, provides faculty, students, and staff with a wide range of audiovisual equipment and services. Services include the following: scanning stations, video editing stations, video conferencing, audio conferencing, LCD projector loans, digital still and digital video camera loans, and much more.

EMS provides multimedia services on both PC and Macintosh platforms. EMS can also assist you with your presentation questions to help you pack the most punch during presentation time.

EMS provides repair and consultation services to the UNBC community. EMS also produces the Convocation video for your graduation memories.

Please be advised that fees may apply for equipment rental and repair.

For a complete list of available equipment and the fee schedule, and for additional information, please drop by EMS or visit the EMS web site at <http://www.unbc.ca/ems> or email [ems@unbc.ca](mailto:ems@unbc.ca) to book equipment.

### Institutes

#### Community Development Institute

The mission of the Community Development Institute at UNBC is to support the research, information, and development needs of Northern BC's rural and small town communities as they adjust to change in the new economy. The CDI supports community capacity building and community development through collaborative projects and educational outreach aimed at equipping places with needed information so that they can make decisions about their community's future. <http://www.unbc.ca/cdi/>.

#### 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 and the Northern Interior Regional Health Board. 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. For more information, see the Institute's home page at <http://web.unbc.ca/isre/>.

#### Natural Resources and Environmental Studies Institute

The Natural Resources and Environmental Studies Institute (NRES Institute) is a formal association of UNBC faculty and affiliates that promotes integrative research to address natural resource systems and human uses of the environment, including issues pertinent to northern regions. Founded on and governed by the strengths of its members, the NRES Institute creates collaborative opportunities for researchers to work on complex problems and disseminate results. The NRES Institute serves to extend associations among researchers, resource managers, representatives of governments and industry, communities, and First Nations. These alliances are necessary to integrate research into management, and to keep research relevant and applicable to problems that require innovative solutions. For more information see the Institute's web page at [http://www.unbc.ca/nres/institute\\_overview.html](http://www.unbc.ca/nres/institute_overview.html).

#### Northern Land Use Institute

The Northern Land Use Institute works toward improving land use, resource, and environmental decision-making in northern communities. Initially supported by an endowment fund from the BC Real Estate Foundation and by additional partnership with the Muskwa-Kechika Trust Fund, the Institute promotes collaborative, inter-disciplinary research in partnership with northern communities,



First Nations, public agencies, and the private sector. For more information, please see the Institute's web site at <http://www.unbc.ca/nlui/>.

### Rural and Remote Health Research Institute

People living in rural and remote communities have life experiences that are distinct from people living in urban communities. The research needs and approaches required to study and understand rural health are equally distinct. In order to address the unique requirements of rural and remote health research, the Rural and Remote Health Research Institute has been approved in principle.

The Rural and Remote Health Research Institute is expected to:

- undertake and facilitate health research activities for the benefit of people in the rural, remote, and northern communities
- foster the development of innovative and interdisciplinary research in rural and remote health research
- advance the level and breadth of health research undertaken at UNBC
- offer additional venues for research opportunities and activities across a number of UNBC programs
- serve as a dedicated vehicle for the promotion of basic and applied research

### International Exchange and Student Programs Office

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 Exchange and Student Programs office ([www.unbc.ca/international](http://www.unbc.ca/international)).

### 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.

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.

### 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. The main office of the society is in the administration building on the Prince George campus. It is staffed by a part-time office manager. Operated mainly by volunteers, the society represents 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 affect 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, office space, and a lounge area for socializing. Representatives also organize social and sporting events both on and off campus. For more information on the NBCGSS and its activities and resources, please call (250) 960-5671, e-mail [gssoffice@unbc.ca](mailto:gssoffice@unbc.ca) or consult the website at [web.unbc.ca/grads](http://web.unbc.ca/grads).

### Northern Undergraduate Student Society

The Northern Undergraduate Student Society (NUGSS) works to facilitate an awareness of the rights and views of its members by acting in a fair and democratic manner through the promotion, education and representation of Undergraduate students at the University of Northern British Columbia. NUGSS encourages healthy conduct between students, a relationship between the student body, the university, and the community. As a not-for-profit organization, NUGSS is a collective voice for the student body. It is a facilitator of events, elections, programs, student aid packages, and a health and dental plan. It also works to accommodate the needs of students through clubs and groups, and offers services such as faxing and lockers. NUGSS is governed by a Board of Directors which is student-based and student-elected. The NUGSS office is located along the main hallway next to the Bookstore. The hours of operation are 9:00 am to 4:00 pm, Monday to Friday. Students can call the NUGSS office at (250) 960-6427, or visit the NUGSS website at <http://nugss.unbc.ca>. Please call 1-866-358-4431 for any inquiries regarding the NUGSS Health and Dental Plan.

### Office of Research and Graduate Programs

The Office of Research and Graduate Programs serves the UNBC research and graduate student community and works to enhance UNBC's research intensity.

The Office provides support for the preparation of research proposals by faculty members, the preparation of institutional research proposals, assistance with reporting to funding agencies, and liaison with organizations external to UNBC including government entities, private-sector companies and community organizations.

The Office is responsible for the administration of graduate educational requirements and provides support for many fellowship

## Services and Facilities

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and scholarship programs, graduate thesis/project defences, graduate student and program related issues.

Visit our website at [www.unbc.ca/researchandgraduateprograms/](http://www.unbc.ca/researchandgraduateprograms/) for more information.

### Office of the Registrar

The Office of the Registrar is involved in many aspects of a student's academic life on a variety of topics including: admissions, course and exam scheduling, financial aid and awards, course registration, and transcripts. In addition to admitting and enrolling students, the Office of the Registrar's professional staff is responsible for producing the academic calendars, academic policies and procedures, and much more.

### Awards and Financial Aid

UNBC's Awards and Financial Aid 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, Canada Study Grants, and other forms of financial assistance. The Office is located on Student Services Street on the Prince George campus. Service is also available through Regional Offices.

For more information on financial assistance, visit the web site at [www.unbc.ca/finaid](http://www.unbc.ca/finaid).

### Parking

There are three main lots available for parking on campus. Parallel parking is also permitted on Ring Road and EFL Road (between appropriate signage and appropriate times). 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 persons with disabilities.

Annual, by semester, or visitor permits are available.

A valid parking permit or ticket stub must be clearly displayed. Vehicles not clearly displaying a valid parking permit or ticket stub will be subject to a parking citation and/or vehicle immobilization 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.

Regional Operations is responsible for the development and delivery of degree programs, courses and services to students at campuses 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, 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 an federation agreement with the Wilp Wilxo'oskwhl Nisga'a. The WWN offers course work, centred in the Nass Valley, leading to a Bachelor of Arts and/or Certificates 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 Regional campus, should contact the appropriate campus for information and assistance. See inside back cover for contact information.

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. Full information can be obtained through UNBC Regional Campuses.

### UNBC Terrace Campus

In the Northwest, courses are offered in many communities in the region, including Terrace. In the summer, Courses on the Coast are mounted in an intensive format in Prince Rupert and Skidegate. These courses focus on contemporary issues in the region and the art and science of place. In the region, the University offers undergraduate, graduate, and professional programs in First Nations Studies, Social Work, Education and Community Health. Other courses are offered by distance in a variety of formats.

The University offers courses in language and culture throughout the region. The University has productive partnerships with Wilp Wilxo'oskwhl Nisga'a, the Nisga'a House of Wisdom, and Northwest Community College, and with community groups.

### UNBC Fort St. John Campus

UNBC's Peace River-Liard Regional Campus is located within Northern Lights College's Fort St. John Campus. UNBC has developed a strong partnership with Northern Lights College and School District #60 and is a member of the Alaska Highway Consortium on Teacher Education (AHCOTE). Most courses are taught face-to-face in Fort St. John and

Dawson Creek, and many are teleconferenced to students throughout the region, as well as to the Northwest and South-Central Regions. Some are also delivered via video-conference.

In the Peace River-Liard Region, students have the opportunity to pursue course work leading to degrees in Arts, Sciences, Natural Resource Management, Social Work, Education, Environmental Studies, and Environmental Planning. UNBC provides third and fourth-year courses for students in the AHCOTE program, primarily in English, History and Geography. Students also have access to a number of Web and teleconferenced courses delivered from Prince George and other UNBC regions.

### UNBC Quesnel Campus

The 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. UNBC offers courses in cooperation with the Williams Lake campus of the Thompson Rivers University, the College of New Caledonia, 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 and Web. Degrees may be completed in Social Work, Nursing, English, Education and History in Quesnel, and in First Nations Studies in Williams Lake.

### University Housing and Residence Life

Housing and Residence Life, located in the lower level of neyoh Residence, is responsible for the on-campus residences and for maintaining an off-campus housing registry.

#### On-Campus Housing

UNBC Residences offers reasonably priced apartment style accommodations that are clean, comfortable, safe and convenient for single university students. On campus housing offers a comprehensive Residence Life Program which further promotes and enhances the overall educational experience and academic success of students.

There are two separate buildings, neyoh (our home) and keyoh (our community), each residence accommodates 270 students in a combination of two and four bedroom apartments. The kitchen in each apartment includes a full size range and refrigerator; the large common area is furnished with a sofa, a coffee table and a dining table with four chairs. The bedrooms are fully furnished with a captain style single bed (drawers underneath), bookshelf, desk, chair, and outlets for computer, cable and phone. Internet, satellite TV and local phone service is provided and included in the rent.

It is important to apply for admission to residence early since demand for on-campus housing is high. Applications for the coming fall

semester can be submitted at any time through our on-line application process at <http://www.unbc.ca/housing/>. Application processing will begin in February and confirmation of acceptance is conditional to admission to the University as a full time student. Every student who has been accepted to the university, applies for residence on or before March 1st, is entering UNBC for the first time, and will be studying in the first year is guaranteed residence accommodation. For more detailed information please visit our website at <http://www.unbc.ca/housing/> and select appropriate links.

#### Off-Campus Housing

There are two links related to off-campus which can be found on the housing web site at <http://www.unbc.ca/housing/>. The office campus housing registry at <http://www.och101.com/unbc/> provides information related to local listings and <http://www.unbc.ca/housing/offcampus/index.html> provides general information about renting and leases.

#### Risk Management and Safety

The Risk Management and Safety Office is located in 1085 of the Administration Building and provides key support and training for Student Services, Research, Teaching and Administrative Services. For more information please contact the Risk Management and Safety Office at (250) 960-5020 or e-mail [safety@unbc.ca](mailto:safety@unbc.ca).

#### Student Career Centre

The Student Career Centre helps UNBC students and recent grads find careers related to their degree. The centre assists with developing strategies and techniques that enhance the marketability of UNBC students and alumni locally, regionally, nationally, and internationally. The Student Career Centre offers assistance with career planning, resume and cover letter development, interview and presentation skills, portfolio development, and access to job postings through our website.

The Student Career Centre connects students and alumni with recruiting employers through our online job board, NorthWorks, the annual campus-wide career fair, and Employer Information Sessions. Additionally, the Student Career Centre administers the Co-op Education Program and is the main campus contact point for employers.

Student Career Centre, Agora 7-153  
Tel: (250) 960-6598 • Fax: (250) 960-6065  
<http://www.unbc.ca/careercentre/>

#### Student Success

The primary goal of Student Success 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 Success includes Wellness Centre, Awards, Financial Aid (Office of the Registrar), Disability Services, Orientation Programs, Student Recruitment and Student Advising, International Exchange and Student Programs.

# Services and Facilities

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## Athletics and Recreation

### Athletics

UNBC is a member of the British Columbia College Athletic Association. Both men's and women's Varsity basketball teams compete within this provincial league which leads to a national championship.

The athletic program also includes Junior Varsity teams consisting of hockey, soccer, and nordic skiing. These teams compete in local leagues as well as travel to tournaments and competitions throughout the province.

All new and returning students are encouraged to take an active role in UNBC athletics, whether it's through participating on a team or providing cheering support.

Further information concerning contact names, schedules or other information on the UNBC athletic program is available at (250) 960-6358, or by visiting the web site at [www.unbc.ca/athletics](http://www.unbc.ca/athletics).

### Career Development Services

UNBC encourages students to explore their career options and prepare for the job market. Visit Career Services, located on Student Services Street. Information sessions and counselling are 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, and an annual Career Fair is held every March.

### Disability Services

The University of Northern British Columbia encourages academically qualified persons with disabilities to apply for admission to its programs. A variety of services is 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.

Students with disabilities are encouraged to contact Disability Services as early as possible to discuss academic accommodations. There are four general steps required for processing accommodation requests:

1. request for accommodation
2. documentation
3. needs assessment; and
4. decision and implementation

As these steps should be completed before classes commence, the University encourages students seeking accommodation to contact Disability Services at least one month before the term commences. If special transportation needs or extensive physical modifications are anticipated, the student should meet with the Disabilities Advisor several months in advance of the semester of registration to permit reasonable planning time. If accommodation requires the acquisition of special or additional resources not regularly available within the University, it is recommended that six months advance notice

be given in order for the University to assess the accommodation request. Disability Services will provide information on the academic accommodation resources that are currently available on campus. Information on UNBC's disability-related policy, procedures, and services is available on the Disability Services web site at [www.unbc.ca/disabilities](http://www.unbc.ca/disabilities).

The University buildings were designed to meet the needs of those with mobility problems, and wheelchair access and special parking facilities are available.

### Fitness Centre

Be Active! Relieve stress, take a break from your studies and get in shape; check out the on-campus Fitness Centre. The heart of fitness and health activities includes three squash courts, one racquetball court, full weight, cardio and circuit rooms, a studio room, and a variety of aerobic and recreation classes, to cater to all abilities and fitness levels. Dry saunas are available for after work-out relaxation. Beach volleyball courts are available in the summer and are used as an ice rink in the winter.

### 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 is committed to promoting student achievement and retention, to developing independent, effective life-long learners through supporting innovation in learning and teaching. We do this through the provision of one-to-one tutoring in writing, study skills, Math/Stats, Physics, and technology; generic and tailored workshops; web information; print and audio-visual resources; faculty consultations; and the Supplemental Instruction program. For more information visit our web site at [www.unbc.ca/lsc](http://www.unbc.ca/lsc).

### UNBC Identification Card

Every student, faculty or staff member at the University of Northern British Columbia will receive an official identification card. The card will show the name, identification number, and photograph of the cardholder, and will grant borrowing privileges at the Library and access to the Fitness Centre. The UNBC Id Card uses magnetic stripe technology that allows it to be used for book plan, meal plan and chart plan purchases.

### Wellness Centre

The Wellness Centre team, which includes Counselling Services and Health Services, seeks to support UNBC students in achieving their academic goals by providing opportunities to achieve a balanced and healthy lifestyle through the provision of training, events, information and professional helping services.

## Counselling Services

Professional counsellors provide a confidential and discrete atmosphere in which students can discuss any topic or situation of concern. Professional counsellors are trained to help you make real and lasting changes in your life. Students can obtain a full range of counselling services from education and support to psychotherapy and psychiatry.

- Individual and Group Personal Counselling
- Individual Career Counselling
- Crisis Response
- Psychiatric Clinic
- Consultation Workshops and Training

## Health Services

The staff at Health Services are committed to providing support for students around health issues; managing short and longer term illness or health problems, managing healthy lifestyles, identifying other health resources according to need. Some of the services provided through Health Services include:

- Nurse Services
- Physician Clinics
- Diabetes Needle Drop Off
- Health Assessment Clinics
- Infectious Disease Clinics
- Health Education

## Book Plan

The Book Plan was established to allow students and/or parents to allocate money to pay for all Bookstore purchases. Money may be added to the Book Plan at the Cashier's Office during regular working hours, and may be used only in the Bookstore. The Book Plan may continue to be used until the balance reaches zero.

Students may request a refund of any balance remaining on the Book Plan from the Cashier's Office. The student can move the balance to their student account, transfer it to the Debit Plan or elect to receive a refund cheque (two to three weeks is required to process a cheque).

The Book Plan is an online system, and uses the magnetic stripe on the card. As the card itself carries no funds, there is no risk of loss to the user if the card is lost or stolen.

## Meal Plan

The Meal Plan is a convenient way for students to pay for food services on campus. Meal Plan purchases of \$800 or greater per semester are exempt from GST and receive discounted prices. On average, a Meal Plan of \$800 will provide approximately 10 meals per week; a Meal Plan of \$1,200 will provide approximately 15 meals per week; and a Meal Plan of \$1,600 will provide approximately 20 meals per week. Meal Plan can be used at all food service outlets on campus, but may not be used to purchase alcoholic beverages.

Meal Plans expire at the end of each semester, and the balance is returned to the student account (less GST where applicable). 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 per semester limit for GST exemption. Please allow two to three weeks for a refund cheque.

The Meal Plan is an online system, and uses the magnetic stripe on the card. As the card itself carries no funds, there is no risk of loss to the user if the card is lost or stolen.

## Chart Plan

The Chart Plan is for students who will not be eating all of their meals on campus, but would still like the convenience of prepaying their food service purchases. The student may purchase a Chart Plan for as little as \$100. While all the purchases made with a Chart Plan are subject to GST, they also receive discounted prices. The Chart Plan can be used at all food service outlets on campus, but may not be used to purchase alcoholic beverages.

Chart Plans are non-refundable, as the student controls how much they wish to purchase. Chart Plans have no expiry date.

The Chart Plan is an online system, and uses the magnetic stripe on the card. As the card itself carries no funds, there is no risk of loss to the user if the card is lost or stolen.

# Prince George Campus Building Directory

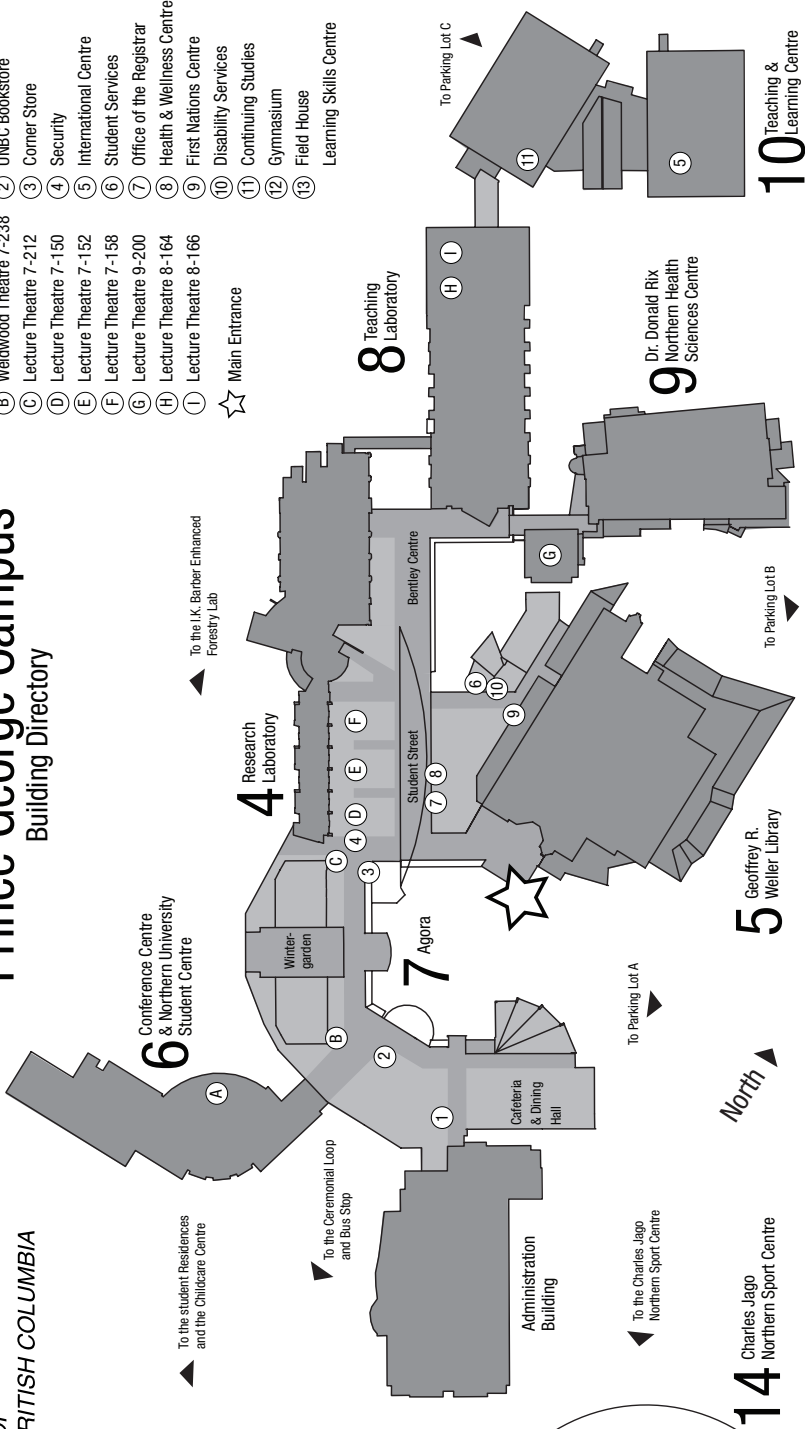
Room numbers include building code prefixes. For example, room 5-152 is located in the Geoffrey R. Weller Library (Building 5), and room 8-322 is located in the Teaching Laboratory (Building 8). The Administration building does not use a building code prefix.

The first number after the building code prefix indicates the floor level on which the room is located. For example, room 10-4520 is located on the fourth floor in the Teaching & Learning Centre (Building 10).

- ① Copy Services
- ② UNBC Bookstore
- ③ Corner Store
- ④ Security
- ⑤ International Centre
- ⑥ Student Services
- ⑦ Office of the Registrar
- ⑧ Health & Wellness Centre
- ⑨ First Nations Centre
- ⑩ Disability Services
- ⑪ Continuing Studies
- ⑫ Gymnasium
- ⑬ Field House
- ⑭ Learning Skills Centre

- Ⓐ Canfor Theatre
- Ⓑ Waldwood Theatre 7-238
- Ⓒ Lecture Theatre 7-212
- Ⓓ Lecture Theatre 7-150
- Ⓔ Lecture Theatre 7-152
- Ⓕ Lecture Theatre 7-158
- Ⓖ Lecture Theatre 9-200
- Ⓗ Lecture Theatre 8-164
- Ⓙ Lecture Theatre 8-166

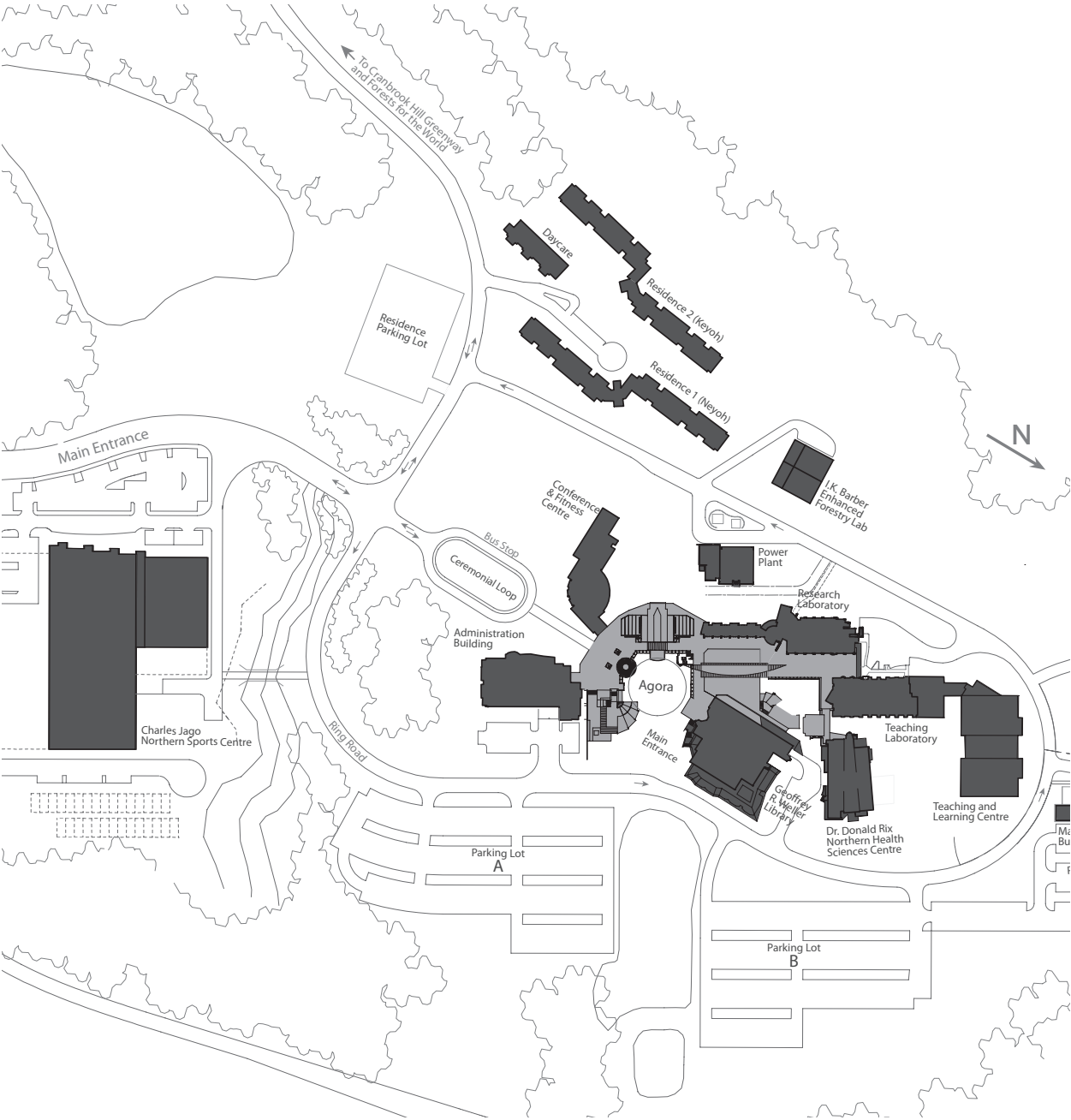
☆ Main Entrance



# Prince George Campus Overview

## 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!



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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, 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 Semester dates section of this calendar.

New Year's Day	January
Good Friday	March or April
Easter Monday	March or 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 or visit [www.unbc.ca](http://www.unbc.ca).

The hours of operation for the following services are Fall and Winter hours. Contact these services to inquire about Summer hours of operation.

## Cashier's Office

Monday to Friday 9 am - 4 pm

## Disability Services

Monday to Friday 8:30 am - 4:30 pm

## Finance

Monday to Friday 8:30 am - 12 pm;  
1 pm - 4:30 pm

## First Nations Centre

Monday to Friday 8:30 am - 4:30 pm

## International Centre

Monday to Friday 10 am - 12 pm  
1 pm - 4 pm

## Registrar's Office

Monday to Friday 9 am - 12 pm;  
1 pm - 4 pm

## Student Recruitment

Monday to Friday 8:30 am - 4:30 pm

## Student Services

Monday to Friday 9 am - 12 pm;  
1 pm - 4 pm

## Bookstore

Monday to Thursday 9 am - 5 pm  
Friday 9:30 am - 5 pm

## The Corner Store

Monday to Thursday 9 am - 8:30 pm  
Friday 9 am - 7 pm  
Saturday 11 am - 4 pm  
Sunday 11:30 am - 6 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 8 am - 10 pm  
Sunday 10 am - 10 pm

## Food Court

Monday to Thursday 7:30 am - 6 pm  
Friday 7:30 am - 3 pm

## Northern Undergraduate Student Society

Monday to Thursday 9 am - 12 pm  
1 pm - 4 pm  
Fridays 9 am - 12 pm  
2:30 pm - 4 pm



## **Northwood Winter Garden Deli**

Monday to Friday 3 pm - 10:30 pm  
Saturday to Sunday 12 pm - 6 pm

## **Starbucks**

Monday to Friday 7:30 am - 3 pm

## **Tim Hortons**

Monday to Friday 7:30 am - 4:30 pm

## **Regional Campuses**

All regional campuses close one hour for lunch; some from 12 pm - 1 pm, and others from 12:30 pm - 1:30 pm.

## **UNBC Terrace Campus**

Monday to Friday 9:00 am - 4:00 pm (open during lunch hour)

## **UNBC Fort St. John Campus**

Monday to Friday 8:30 am - 4:30 pm (Mountain Standard Time)

## **UNBC Quesnel Campus**

Monday to Friday 8:30 am - 4:30 pm : 12:30 pm-1:30 pm

## **UNBC Prince Rupert Campus**

Tuesday to Thursday 8:30 am - 4:00 pm

Wednesday to Friday 8:30 am -12:30 pm

## **UNBC Wilp Wilxo'oskwhl Nisga'a**

Affiliate Campus

Monday to Friday 8:30 am - 4:30 pm

# Fees

## Undergraduate

Note: Fees are subject to change. At the time of publication, a University decision with respect to fees was pending. The fees listed below are for 2007-2008. The fees for 2008-2009 have not yet been set.

Tuition	\$142.55 per credit hour
Bachelor of Education tuition	\$2,393.02 per semester
Student services fee	\$5.00 per credit hour (to a maximum of \$75.00)
NUGSS Student society fee	\$32.00 per semester (\$22.00 per semester in regions)
NUGSS Health and Dental Plan	\$207.00 per policy year (full time only, Prince George students only)
NUGSS Building fee	\$30.00 per semester (Prince George students only)
Student ID Card fee (full time)	\$7.50 per semester
Student ID Card fee (part time)	\$3.50 per semester
Intramural Recreation & Fitness fee	\$55.00 per semester (Prince George students only)
PGPIRG fee	\$4.00 per semester (full-time students) \$2.00 per semester (part-time students)
Athletics Intersarsity & Junior Varsity Program fee	\$40.00 per semester (Prince George students only)
CFUR student radio	\$5.00 per semester (Prince George students only)
WUSC fee	\$2.00 per semester
Over the Edge Newspaper Society	\$5.00 per semester (Fall and Winter only; Prince George students only)
Audit course	part-time students— \$71.28 per credit hour; full-time students—free

Course Challenge fee	\$71.28 (50% of regular tuition fee) per credit hour
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## International Students

Tuition - undergraduate	\$498.93 per credit hour; all other fees are the same as those for Canadian undergraduate students
Medical Insurance	\$148.00 per 3-month period (please refer to "Medical Insurance Fee for International Students")

## Co-op Education Students

Co-op Application (BOL course) fee	\$75.00 Fee \$508.17* per work term
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\*Note: \$75.00 reduction per work term that is self developed. See Co-operative Education Self Developed Work Term for more details.

## Other Fees

Application fee	\$35.00 domestic \$75.00 international to accompany each application for admission (non-refundable)
Document evaluation fee	\$40.00 (for out-of-province or out-of country post secondary documents, non-refundable)
Registration deposit	\$100.00 per semester (non-refundable)
Graduation processing fee	\$40.00 fee per application for all graduating students (non-refundable)
Student ID Card replacement	\$15.00 per lost or damaged card
Course fees	Certain courses carry additional fees to cover the costs of field trips, lab supplies or readings

International exchange application fee	\$25.00 per application (undergraduate and graduate, non-refundable)
Study abroad application fee	\$75.00 US per application to National Student Exchange Program (undergraduate and graduate, non-refundable)
Official Transcript fee	\$5.00 per transcript copy
Calendar fee	\$3.00 (not applicable to new applicants)
NSF fee	\$15.00 (on returned cheques)

Outstanding accounts are subject to a monthly service charge of 2% on the outstanding principal (26.82% per annum).

## Parking Fees

Daily	\$1.00 to a maximum of \$2.00 which is valid until 6 a.m. the following morning.
Semester permit	\$128.40 including GST
Annual permit	\$385.20 including GST
Reserved permit (staff/faculty)	\$642.00 including GST (subject to availability)
Carpool permit	\$22.47 per month including GST (for details see Parking Services)

## Residence Fees

Application fee	\$25.00 (non-refundable)
Security deposit	\$200.00 (this deposit is refundable subject to conditions and timelines as outlined in the UNBC Residence License Agreement)
Residence life fees	\$20.00 per semester
Two bedroom units	\$2,261.85 per semester, per occupant
Four bedroom units	\$1,988.62 per semester, per occupant
Residence parking	\$173.00 per semester, including GST

Housing fees include: telephone services with voice mail, high-speed internet connection, and cablevision services.

## 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 tuition waiver for the payment of tuition fees. Please note that in those areas where there is 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.

### NUGSS Health & Dental Plan

All full-time undergraduate students who are registered on the Prince George campus and are members of the Northern Undergraduate Student Society (NUGSS) are automatically enrolled in the NUGSS Health & Dental Plan.

Your student Plan provides you with health and dental coverage for 12 months, from September 1 to August 31 of the following year. If you are already covered by an equivalent extended health and dental plan, you may opt out online during the Change-of-Coverage Period (typically within the first 3 weeks of classes-for exact deadlines visit <http://www.studentcare.net/>). Your Plan also gives you the option to enroll your family (spouse and/or dependents) by paying an additional fee. Most members that are not automatically covered, but those who wish to have coverage, are able to enroll themselves for an additional fee. Students starting in January may enroll at a pro-rated rate for 8 months of coverage (January 1 to August 31). For more information, contact [studentcare.net/works](http://www.studentcare.net/works) at 1-866-358-4431 or visit <http://www.studentcare.net/>.

### 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.

### Registration Deposit

The registration deposit is required prior to any registration activity. This deposit will be fully credited to your account at the commencement of the semester. The deposit is non-refundable.

### Payment Due Date

All student accounts are payable in full by the first day of the semester and refunds (less the non-refundable registration deposit) 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. A service charge of 2% per month (annualized rate of 26.82%) will be applied to any outstanding balance when the account reaches 30 days past due and every 30 days subsequent until the account is paid in full.

### 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 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 service charges, is paid in full.

### Failure to Notify

Any student failing to provide written notification to the Office of the Registrar 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, American Express, Mastercard, Visa, 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.
- in person: at the Cashier's Office located next to Student Services during regular business hours. Tuition payments are also accepted at UNBC's regional offices in Terrace, Fort St. John and Quesnel.
- in payment drop box: located by the Security Office. All payments must be enclosed in an envelope. Do not drop cash in box.
- by American Express, Mastercard, Visa, or Debit Card: will be accepted in person by the Cashier.
- by internet: Mastercard, and Visa payments will be accepted using the UNBC web site for students.

Any questions regarding making payments may be directed to the Cashiers Office by telephone at (250) 960-5631 or by fax at (250) 960-5251, or to Accounts Receivable at (250) 960-5576.

Payment inquiries can be addressed to [cashier@unbc.ca](mailto:cashier@unbc.ca). Do not e-mail credit card or banking information.

### 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\*

#### September Semester:

**September 15, 2008** Last Day to Add/Drop without financial penalty  
**October 14, 2008** Last Day to Withdraw without academic penalty, 50% tuition refund.

#### January Semester:

**January 16, 2009** Last Day to Add/Drop without financial penalty  
**February 13, 2009** Last Day to Withdraw without academic penalty, 50% tuition refund.

\*For May Semester courses, and for condensed courses, the last day to withdraw (50% tuition refund) is indicated in the course specific documentation.

### 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 \$148 will be assessed further 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 enroll in a university-sponsored plan which costs \$148 for three months of coverage.

Students must contact the International Centre to enroll in the private insurance plan or to receive a waiver of the medical insurance fee. Please note that simply paying the \$148.00 fee does not fulfil the policy. The policy requires that international students have valid medical insurance while at UNBC, and that they demonstrate proof of such coverage.

**Note: Standards for accounts receivable billing and collection of student accounts receivable are subject to UNBC Policy on Student Accounts. See UNBC Policy and Procedures Manual on the web at [www.unbc.ca/policy](http://www.unbc.ca/policy) under FINANCE. For further information on Student Accounts Receivable, please see the Finance web site at [www.unbc.ca/finance\\_dept/](http://www.unbc.ca/finance_dept/).**

# Sessions

## Academic Year

The academic year extends from September 1 to August 31. Most of the University course offerings are available during the day, and courses are available in the evening during the September and January Semesters. In each 12-month academic year beginning in September:

- September Semester - September to December
- January Semester - January to April
- May Semester - May to August.

## 2008 -2009 Semester Dates

### 2008 September Semester

#### September

1	Monday	Labour Day, University closed.
2	Tuesday	First day of classes, September Semester
		<b>All</b> September Semester fees due.
15	Monday	Last day to add/drop September Semester courses without financial penalty. Last day to change September Semester courses from audit to credit and credit to audit.

#### October

13	Monday	Thanksgiving Day, University closed
14	Tuesday	Last day to withdraw from September Semester courses without academic penalty, 50% tuition refund.
31	Friday	Deadline for application to graduate in 2009.

#### November

3	Monday	Application deadline for undergraduate studies for January Semester.
11	Tuesday	Remembrance Day, University closed.

#### December

1	Monday	Last day of classes
3	Wednesday	First day of exam period
15	Monday	Last day of exam period
25-31	Thur.-Wed.	University closed
29	Monday	University closed (maintenance shutdown)

### 2009 January Semester

#### January

1-2	Thur.-Fri.	University closed.
5	Monday	First day of classes. <b>All</b> January Semester fees due.
16	Friday	Last day to add/drop January Semester courses without financial penalty. Last day to change January Semester courses from audit to credit and credit to audit.

#### February

2	Monday	Application deadline for admission to the Bachelor of Social Work program for the September Semester 2009. Application deadline for Bachelor of Fine Arts.
13	Friday	Last day to withdraw from January Semester courses without academic penalty, 50% tuition refund.
16	Monday	Beginning of Mid-Semester Break. No classes Feb. 16-20.

#### March

2	Monday	Application deadline for undergraduate studies for September Semester 2009. Application deadline for admission to the Environmental Engineering Program for September Semester 2009. Application deadline for admission to the Bachelor of Health Sciences Program for September Semester 2009. Application deadline for UNBC administered scholarships and bursaries. Application deadline for May Semester 2009.
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16	Monday	Application deadline for the Bachelor of Education Program September Semester 2009.			Application deadline for the Northern Advancement Program for September.
31	Tuesday	Application deadline for the Northern Collaborative Baccalaureate Nursing Program September Semester 2009.		15	Monday Last day of classes, Spring Intersession. Last day to withdraw from May Semester courses without academic penalty, 50% tuition refund.
<b>April</b>				17	Wednesday First day of exam period, Spring Intersession
8	Wednesday	Last day of classes		22	Monday Last day of exam period, Spring Intersession
10	Friday	Good Friday, University closed			Summer break begins for May Semester, no classes June 22-July 5.
13	Monday	Easter Monday, University closed		30	Tuesday Recommended application deadline for BC Student Assistance Program (BC Student Loans).
14	Tuesday	First day of exam period		<b>July</b>	
25	Saturday	Last day of exam period		1	Wednesday Canada Day, University closed
<b>2009 May Semester</b>				4	Saturday University closed (maintenance shutdown).
<b>May</b>				6	Monday Classes resume for May Semester. First day of classes, Summer Intersession.
4	Monday	First day of classes, May Semester and Spring Intersession <b>All</b> May Semester fees due, including Spring/Summer Intersessions.		10	Friday *Last day to add/drop Summer Intersession courses without financial penalty.
8	Friday	*Last day to add/drop Spring Intersession courses without financial penalty.		24	Friday Last day to withdraw from Summer Intersession courses without academic penalty, 50% tuition refund.
15	Friday	Last day to add/drop May Semester courses without financial penalty. Last day to change May Semester courses from audit to credit and credit to audit.		<b>August</b>	
18	Monday	Victoria Day, University closed		3	Monday BC Day, University closed.
25	Monday	Last day to withdraw from Spring Intersession courses without academic penalty, 50% tuition refund.		14	Friday Last day of classes, Summer Intersession and May Semester
29	Friday	Convocation		17	Monday First day of exam period, Summer Intersession and May Semester.
<b>June</b>				21	Friday Last day of exam period, Summer Intersession and May Semester.
1	Monday	Application deadline for International Students for January Semester 2010.		*For condensed courses, the last day to withdraw (50% tuition refund) is indicated in the course-specific documentation.	

## 2008 -2009 Senate Dates

September 10, 2008  
October 8, 2008  
November 12, 2008  
December 10, 2008

January 21, 2009  
February 11, 2009  
March 11, 2009  
April 15, 2009

May 13, 2009  
June 10, 2009  
July 8, 2009  
August 12, 2009

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# Undergraduate Regulations and Policies

## I. Notification of Disclosure of Personal Information to Statistics Canada

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

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

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

Students who do not wish to have their information used are able to ask Statistics Canada to remove their identification and contact information from the national database.

Further information on the use of this information can be obtained from Statistics Canada's website: <http://www.statcan.ca> or by writing to the Postsecondary Section, Centre for Education Statistics, 17th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, K1A 0T6.

## II. 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 postsecondary institution in the Province of British Columbia. Information provided to the University by students, 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).

## III. Student Conduct

### 1. Purpose and Definition

The University community includes members of the student body, faculty, staff, administration, Board of Governors, and Senate. The purpose of this policy is:

- a. to define the basic Code of Conduct for students as members of the University community;
- b. 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.

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; and which is 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:

- a. taking full advantage of education, training and services offered;
- b. informing themselves about University policies and procedures;
- c. their conduct, either individually or in a group;
- d. conducting their activities in a manner compatible with the University's commitment to creating a safe and supportive working and learning environment;
- e. respecting and treating members of the University community without discrimination, harassment, intimidation, or physical or psychological abuse;
- f. respecting University property and the property of members of the University community;
- g. respecting University regulations and the exercise of legitimate authority;
- h. respecting due process, including the avenues of redress and appeals as stated by the University;
- i. participating in the governance of the University.



## 2. Harassment, Discrimination, and Diversity Initiatives

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. For further information or assistance please contact the Harassment and Discrimination Advisor 960-6618; or the Diversity Project Coordinator, Human Resources 960-5604.

## 3. 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 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.

## 4. Scope

Prohibited conduct includes, but is not limited to:

- a. intentionally or recklessly creating situations which endanger or threaten the health, safety or well-being of another individual;
- b. 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);
- c. harming, injuring or threatening any person on campus or in attendance at University classes, activities or functions;
- d. harassment or discrimination of any person at the University (please refer to the University Harassment and Discrimination Policy);
- e. committing unlawful acts during activities organized or sponsored by the University and the University community;
- f. impeding or disrupting teaching, research, administration, disciplinary proceedings, public service functions and other authorized University functions;
- g. possessing and/or selling illegal drugs or narcotics on campus;
- h. misappropriating, converting, destroying, permanently defacing or otherwise damaging University property, resources or the property of others;

- i. possessing University property or property of other University Community members without proper consent and authorization;
- j. forging, falsifying, misusing or altering any University document or record in paper and electronic form;
- k. obtaining any University equipment, material or service by fraudulent means;
- l. possessing or using intoxicating beverages in areas other than those given specific authorization by the University's Liquor Policy;
- m. possessing or using firearms, knives, fireworks or other dangerous weapons on campus (please refer to the University policy on firearms and dangerous weapons);
- n. entering or remaining in any University building, facility, room or office without proper authority;
- o. allowing others to enter and remain in areas designated for faculty, staff or students without proper authorization;
- p. 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;
- q. aiding, abetting or acting as an accomplice in the enactment of any of the foregoing activities;
- r. any other conduct which is not in keeping with reasonable University standards.

"Prohibited conduct" is not to be interpreted to preclude peaceful gatherings, peaceful demonstrations or free speech.

## 5. Procedures for Evaluating Complaints of Misconduct

- a. 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. Student misconduct or discipline concerns should first be addressed by the instructor, Chair and Dean if the incident occurs in a teaching situation.
- b. A complaint of a misconduct by a student shall be made in writing to the Director, 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 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)).
- c. Except where the complaint should more appropriately be addressed under another specific policy, the complaint will be investigated by the Director, Student Success or designate.
- d. The investigation will first determine if the complaint has merit and/or can be settled by mutual consent of the parties involved.

## Regulations and Policies

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- e. 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.
- f. If the complaint cannot be resolved informally or if the Director, Student Success 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.
- g. Upon completion of the investigation, the Director, Student Success or designate, will recommend to the President action to be taken and inform all appropriate parties.
- h. Discipline may include, but is not limited to:
  - i. written warning to be placed in student's file,
  - ii. probation,
  - iii. payment for damages to University property,
  - iv. fines,
  - v. discretionary penalties, work assignment, service to the University,
  - vi. suspension,
  - vii. expulsion,
  - viii. any other action deemed appropriate in the circumstances.
- i. Any discipline taken by the President may be appealed to the Senate Committee on Student Discipline Appeals
- j. 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 Student Discipline Appeals.

## IV. General Academic Regulations

### 1. Purpose of Academic Regulations

UNBC is committed to high academic standards as well as to assisting students to achieve their educational goals.

The Academic Regulations provide the framework within which academic programs are completed, and offer academic guidance along the program path.

The University reserves the right to add to, alter, or amend these regulations at any time.

### 2. E-mail Communication

E-mail is one of the official means of communication between UNBC and its students. All students are assigned a UNBC e-mail address upon course registration. The e-mail address assigned to a student by the University will be the only e-mail address used by UNBC for communication with students for academic and administrative purposes. Students are responsible for checking their UNBC e-mail account regularly so as to remain current with administrative and

academic notifications. It is the student's responsibility to ensure that time-critical e-mail is accessed, read, and acted upon in a timely fashion. If a student chooses to forward University e-mail to another e-mail address, it is the student's responsibility to ensure that the alternate account is active.

### 3. General Requirements for a Degree With a Major

First-entry undergraduate degree programs require a minimum 120 credit hours with (except for the BA General and BSc Integrated degrees, and professional programs) a major subject. A Major is a set of academic credits that, taken together, offers a strong concentration in a particular subject area or discipline as defined by the University Senate. Special regulations apply to individual degree programs and to honours degrees, the requirements for which should be consulted as well.

### 4. Continuing/Returning Students

A continuing student is one who has registered in one of the last three semesters. Unless such a student has been required to withdraw, or is suspended, the continuing student can return to the University without reapplying. A returning student is one who has not registered in any of the last three semesters. The student must reapply to the University and, if readmitted, will be governed by the general and program regulations in effect at the time of readmission.

### 5. Course Load

A full course load for a student is considered to be five courses (15 credit hours) in any one semester. Not more than 20 credit hours may be attempted in a semester except by permission of the Dean of the relevant College.

### 6. Full-Time Studies

In any given semester, a full-time student is one who is registered in nine credit hours or more in that semester.

### 7. Part-Time Studies

Any student who registers in fewer than 9 credit hours per semester is considered a part-time UNBC student in that semester. Students applying to UNBC to study part-time are subject to the regular admission requirements.

### 8. Classification of Students

For purposes of classification and reporting, all undergraduate students in first-entry programs will be designated as First Year, Second Year, Third Year, or Fourth Year students.

To be considered a Second Year student, one must have obtained a minimum of 30 semester hours of credit towards a degree, or at least 21 semester hours of credit and be registered for sufficient additional semester hours of credit in the current or next semester to total 30.

To be considered a Third Year student, one must have obtained a minimum of 60 semester hours of credit towards a degree, or at least 51 semester hours of credit and be registered for sufficient additional semester hours of credit in the current or next semester to total 60.

To be considered a Fourth Year student, one must have obtained a minimum of 90 semester hours of credit towards a degree, or at least 81 semester hours of credit and be registered for sufficient semester hours of credit in the current or next semester to total 90.

### 9. Auditing Courses

To audit a course is to attend lectures without being responsible for doing assignments or writing examinations.

No credit is given for a course taken in this manner, but courses audited will be recorded on a student's transcript.

To audit a course, a student needs the permission of the instructor, and in some cases must pay an auditing fee.

Except by the express permission of the instructor, an auditing student does not participate in class discussion.

### 10. 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.

### 11. Challenge for Credit by Examination

Under the conditions set out below, students may challenge for credit in a course by writing an examination during an examination period or at a time designated by the course instructor. To be eligible to challenge for credit, a student must be currently registered at UNBC, or have been admitted to study at UNBC other than on a Letter of Permission. Each Dean, on the advice of the Program Chair, will decide which courses are eligible for challenge exams. Students who have earned credit for the course at UNBC or for the equivalent course at another institution, or who have audited the course at UNBC or another institution, or who are currently registered in the course at UNBC, are not eligible to challenge for credit in 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 Office of the Registrar not 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 may be cancelled up until the last day of classes in the applicable semester. 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.

### 12. Advanced Standing

In cases in which course challenge is not possible or appropriate transfer credit is unable to be granted, the Program Chair or instructor, as appropriate, upon review of the student's background, may grant a 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.

### 13. Lower Division and Upper Division Courses

All 100 and 200 level course work is designated as "lower division". Course work done at the 300, 400, and 500 levels is designated as "upper division".

### 14. Residency Requirement for Graduation

Students must complete a minimum of 30 credit hours of upper division UNBC course work to receive a UNBC degree.

### 15. Official and Unofficial Transcripts

Official transcripts are confidential and are only released on written request from the student. Transcripts issued to an institution, company, or agency are mailed directly to their address, or held for pick-up at the Office of the Registrar in confidential envelopes marked 'Official Transcript'. In extenuating circumstances, transcripts may be issued to a student. Third-party requests must be accompanied by a signed authorization from the student.

Each transcript will include the student's complete record at the University. Since credit earned is determined on the results of final examinations, a transcript will not include results of midterm examinations.

Transcripts will not be released without payment of the required transcript fee, and/or if there is an outstanding financial obligation.

Requests for transcripts can be made online at [www.unbc.ca/registrar/](http://www.unbc.ca/registrar/) transcripts or by completing a Transcript Request Form available in the Office of the Registrar. There is a 10-day turnaround for transcript requests.

Unofficial transcripts are available to students directly through UNBC Online Services, <https://www.unbc.ca>.

## 16. Evaluation of Transcripts

The evaluation of transcripts is the responsibility of the Office of the Registrar. Questions relating to transfer credit should be dealt with at the beginning of a student's program. Except for courses taken during that semester on a Letter of Permission, under no circumstances will consideration be given to transfer credits requested during the final semester (15 credit hours) of a student's program.

## 17. Time Limit for Transfer Credit

Transfer credit normally will not be awarded for courses completed in excess of ten academic years prior to the date of first UNBC registration.

## 18. Letters of Permission

A Letter of Permission ensures that courses successfully completed at another institution will be transferred to UNBC for consideration as credit toward the student's degree program. Before taking courses from other post-secondary institutions for credit on a Letter of Permission towards a UNBC credential, a student must:

1. have completed at least nine semester credit hours of study at UNBC
2. not be on academic probation or in arrears on account with the University

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.

Students who complete courses without having first obtained a Letter of Permission risk not having those courses accepted for transfer credit.

## 19. Criminal Records Search

Under the requirements of the Criminal Records Review Act (1996) UNBC requires, as part of the application process, 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. Criminal Records Search forms are available in the Office of the Registrar. Results which identify relevant criminal convictions may disqualify an applicant from admission into a program. Submission of a Criminal Records Search at the point of admission does not preclude either the program or provincial certification bodies from requesting a subsequent Criminal Records Search prior to field placement or professional registration. Criminal Records Searches are requirements for the following programs:

- Bachelor of Education (BEEd)
- Bachelor of Science in Nursing (BScN)
- Bachelor of Social Work (BSW)
- Child Welfare Certificate (CWC)

## 20. Student Access to Official University Record

Students have the right to inspect their Official University Record, including the student file, under the supervision of a staff member and as maintained by the Office of the Registrar. Students have the right to have access to their financial assistance file, as maintained by the Financial Aid and Awards Office under the supervision of a staff member. Assessment reports and letters of reference submitted by third parties in support of students applying to professional programs will not be available for inspection. Students may inspect their Official University Record during normal office hours, and upon advance request in writing. When students inspect their original records, examination will be permitted only under conditions that will prevent alteration or mutilation. In the event of a dispute as to the accuracy of the information maintained in their Official University Record, a student may appeal to the Registrar.

## 21. Declaring a Major

All undergraduate students, other than students enrolled in professional programs or General/Integrated degrees (for whom Majors do not apply), are required to declare a Major before the end of the semester in which they will complete 30 credit hours (See Academic Regulation 2). Students intending to pursue a General or Integrated degree program must declare this intent before the end of the semester in which they will complete 30 credit hours. A student who transfers into the University must declare a Major at the time of application. Declaration forms are available from the Office of the Registrar.

Students must contact a program advisor in their area of study to declare or to change a Major.

## 22. Double Majors

Graduation with a double major from either the College of Arts, Social and Health Sciences or the College of Science and Management requires completion of the requirements for each major. Any courses that are included in the requirements for both majors may be counted for both. Note: If double majors fall between two degrees, students must select one degree or the other, i.e., BA or BSc. They do not qualify for both.

## 23. Minors

A minor requires a minimum of 18 credit hours, at least 12 of which must be upper division. In most cases, the upper limit requirement for a minor is 27 credit hours, at least 12 of which must be upper division. Normally, a maximum of two courses (six to eight credit hours) used to fulfill requirements for a major (or another minor) may also be used to fulfill requirements for a minor. In all minors in the College of Science and Management (See Academic Structure pages) that require a minimum of 24 credits, the 100 level credits used to fulfill

requirements for a major (or another minor) may also be used to fulfill requirements for a minor, and in some such minors further credits used to fulfill requirements for a major (or another minor) may also be used to fulfill requirements for a minor. "Please refer to the program pages for specific details." Students are not permitted to include more than two minors in the same degree program.

## 24. Co-operative Education

Except by permission of the Co-operative Education Program:

1. no student may be registered in more than one course in addition to a "Co-op Work Semester" during a work term.
2. Co-operative Education students must finish their academic programs on an academic term, not a work term.
3. no student may drop or withdraw from a "Co-op Work Semester" once registered in it.

## 25. Time to Complete an Undergraduate Degree

Except by permission of the Dean, students must complete their undergraduate degree program within 15 years of their first semester of registration.

## 26. Second Undergraduate Degrees

Students who have earned a Bachelor's level degree at UNBC or at any other accredited University may obtain a second Bachelor's degree (or the same Bachelor's degree in the case of the BA or BSc) from UNBC under the following conditions:

1. not more than sixty (60) of the credit hours counted towards the second degree may be taken from the first degree.
2. the major subject in the second degree must be clearly distinct from the major subject in the first degree. Where there is any doubt on this point, the decision of the relevant Dean will be final. Students contemplating second degrees are encouraged to consult the relevant Dean in advance.

## 27. Application of Certain Professional Courses to Earn an Undergraduate Degree

With the approval of both the Program Chair and College Dean, certain credits in the Northern Medical Program at UNBC/UBC and in accredited programs in the health professions at other Universities may be accepted towards the Bachelor of Science Degree. Applications for degrees under this regulation will be considered on a case-by-case basis, and in no case subsequent to the conferral of the professional degree in question. Not more than thirty (30) semester hours of professional credits may be counted.

## 28. Registration after the Published Add/Drop Date

No student is permitted to register for any course after the last date to add courses as published in the Calendar except on the express written permission of the Dean, on the advice of the instructor and of the Program Chair under whose authority the course is offered, as appropriate.

## 29. Change of Grade after Submission of Final Grades

Except for grade changes resulting from formal Academic Appeal, any changes in final grade after the initial grade submission must be transmitted to the Office of the Registrar through the appropriate Dean.

## 30. Repeating Courses

Except by permission of the Dean, students are allowed to repeat a course only once. Both grades are recorded on the transcript, and the higher (passing) grade of either attempt may be used for credit towards the degree and only that grade will be calculated into the GPA. In the case of more than one failed attempt, the result of the later attempt will be calculated into the Grade Point Average. 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 program.

Note: Repeating a course to achieve a higher passing grade may have implications for student loan purposes. See Financial Aid Officer.

## 31. Exemptions

At the direction of a Student's Academic Program Chair, specific course exemptions from course requirements may be granted. Nevertheless, the total number of credit hours for the degree still must be earned.

## 32. Graduation Constraints

1. Normally, the Program regulations that apply to a student's graduation are those that applied in the Academic Year in which the student was most recently admitted for continuous registration.
2. Students must apply to graduate. Application for graduation must be received by the Office of the Registrar no later than October 31st of the calendar year prior to the year in which graduation is contemplated, accompanied by the appropriate (non-refundable) graduation fee.
3. Students are not permitted to graduate while on Academic Probation (i.e., CGPA less than 2.00) or while any Academic Appeals are pending.

## Regulations and Policies

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4. Students are not permitted to graduate with deferred grades (DEF) remaining on their transcript.
5. Students who have any outstanding obligation to the University will not be issued an official transcript. 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

### 33. Grounds for Withholding Official Transcripts

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 violation of residence license agreement, the University shall not permit a student to register for further courses, and shall not issue an official transcript. The above prohibitions shall be in force until such time as indebtedness to the University has been cleared to the satisfaction of the University.

### 34. Grading

Each course taken for academic credit is assigned a final grade at the end of the semester. The final grade for each course will be indicated by a letter grade and a grade point on the student's transcript.

**Grade Point Average:** Grade Point Average (GPA) is a method of expressing a student's academic 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.

**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 a semester. See Academic Regulation 30 (Repeating Courses) for the treatment of repeated courses in GPA calculations.

**Cumulative Grade Point Average:** The UNBC Cumulative Grade Point Average (CGPA) expresses performance as a numerical average for all UNBC 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 Academic Regulation 30 (Repeating Courses) for the treatment of repeated courses in GPA calculations. The CGPA provides the numerical value used to determine good academic standing or academic probation.

### 35. International Exchange

In order to be eligible to participate in an international exchange program, UNBC students must have either a UNBC cumulative GPA higher than 2.67, or a GPA in the previous two semesters on at least 18 credit hours higher than 3.00.

### 36. International Exchange Grading

In the case of a formal exchange, the grades from an exchange university are reported using a Pass/Fail grading system and are not counted towards a student's UNBC SGPA or CGPA.

### 37. Honours and Distinction

Candidates for undergraduate degrees whose CPGA at graduation is 3.00 or better will graduate:

> 4.00	With Distinction
> 3.67 to < 4.0	First Class Honours
> 3.50 to < 3.67	Upper Second Class
> 3.00 to < 3.50	Second Class Honours

Candidates for the joint (with UBC) Bachelor of Applied Science in Environmental Engineering will be granted a degree With Distinction if they achieve an overall GPA of at least 3.67 on all 200-level and higher courses while registered in the BASc program.

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## 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 201-3	B	3.0	3 credit hours x 3.0	=	9.00
2.	ENGL 212-3	B-	2.67	3 credit hours x 2.67	=	8.01
3.	BIOL 101-4	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.	PSYC 301-3	W	—			—
		Total		13 credit hours		39.32

Semester GPA:  $39.32/13 = 3.02$

## Undergraduate Grading System

UNBC Grade Point	Letter	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
1.33	D+	57-59.9%	
1.00	D	53-56.9%	
0.67	D-	50-52.9%	
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
WE	Withdrawn under extenuating circumstances	no credit awarded
AUD	Audit of course	no credit awarded
INP	Course or Thesis work	in progress
NGR	No grade reported.	

## 38. Examinations

- No final examinations may count for more than 50% (fifty per cent) of the total course marks.
- With the exception of laboratory, clinical or practicum-based final examinations, tests worth, in aggregate, more than 10% of the final grade must not be administered during the final week of classes. Major papers or projects must not be newly assigned during the last two weeks of classes.
- Program Chairs may make exceptions to parts a) or b) of this policy in extraordinary cases. Such exception must be made before the first day of scheduled classes and have the approval of the Dean.
- Students are required to write no more than two final exams in any one 24 hour period. When a course has a final examination, it must be administered during the scheduled examination period.
- Final exams are no longer than three hours in duration. Exceptions must be approved by the program chair.

## 39. Conduct in Examinations

Students must present appropriate identification upon entering the examination room. Appropriate identification is defined as a UNBC student card and/or some other form of photo identification acceptable to the proctor. The following regulations apply to the conduct of examinations:

- Books, papers, or other materials or devices must not be in the possession of the student during an exam except by the express permission of the examiner. Specifically, without such permission no laptop computers, mobile phone sets, handheld electronic devices or the like may be in possession of the student in the examination room (see Regulation 44 (b)).

- No candidate is permitted to enter the examination room more than 30 minutes after the beginning of the examination, or permitted to leave within 30 minutes after the examination has started.
- 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 proctor.
- Candidates must turn in all materials, including rough work, upon leaving the examination room.
- Food and beverages other than water are not permitted in the examination room.

## 40. Student Access to Final Examinations

The instructor will, on request by a student, informally review the final examination with the student after the semester grade has been released.

Final examinations will be retained by the instructor for a period of sixty days after the examination period, after which time they may be shredded or destroyed by other acceptable means.

## 41. Religious Holidays/Examination Schedule

In some instances, students may find themselves, for religious reasons, unable to write a final examination on a scheduled 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 (available from the Office of the Registrar) and notify their instructors of a conflict at least two weeks prior to the examination period.

## Regulations and Policies

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### 42. Final Examinations Missed

Satisfactory explanation, with supporting documentation as appropriate, for any final examination missed must be made by the student or designate to the Office of the Registrar within 48 hours from the time the examination was written.

Within 48 hours of receiving a submission, the Registrar or designate may direct the Program under which the course is offered to arrange the writing of a special examination in the case of an examination which was missed.

Normally, for explanations of sickness, a doctor's certification is required.

### 43. Deferred Examinations and Grades

- a. Students may apply for a deferred examination or 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 deferral, along with supporting documentation and written approval from the instructor and Program Chair, should be received by the Office of the Registrar without exception before the date of the final examination. After that date, Academic Regulation 42 (Final Examinations Missed) applies. Forms for deferred status are available to Faculty from the Office of the Registrar. If a student is granted a deferral, the exam must be written or the assignment(s) completed and graded before the last day of classes in the following 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 deferral but does not complete the required work, or does not appear for the examination, a grade of F will be assigned. If a student's request for deferred status is refused, the instructor will submit a final grade.
- b. Effective September 2004, students are not permitted to graduate with deferred grades (DEF) remaining on their transcript (See Academic Regulation 32 (Graduation Constraints)).

### 44. 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. If such means are unsuccessful or inappropriate, the formal processes set out in these Regulations are to be followed. An impartial committee, the Senate Committee on Academic Appeals, provides 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 suspension from the University (see Academic Regulation 46 (Academic Sanctions)). Such offenses include, but are not limited to the following:

- a. **Plagiarism:** Plagiarism occurs when a student submits or presents work of another person in such a manner as to lead the reader to believe that it is the student's original work; self-plagiarism is the submission of work previously submitted for academic credit without prior approval of the current course instructor. This offense includes using citations which have been designed in order to mislead the reader as to the nature or authenticity of the source.
- b. **Cheating:** Cheating 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 one's own work; obtaining a copy of an examination before it is officially available; misrepresenting or falsifying references, citations, or sources of information; knowingly recording or reporting false empirical or statistical data; and possession of notes, books, diagrams or other aids during examinations that are not authorized by the examiner (See Regulation 39 (a)).
- c. **Submitting False Records:** Submitting false medical or criminal records, transcripts, or other such certificates or information, under false pretences.
- d. **Withholding Records:** Non-disclosure of previous attendance at a post-secondary institution, and of the transcript of record pertaining thereto, or of other documentation required by the University.
- e. **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.
- f. **Falsification of Results:** The falsification of laboratory and research results.
- g. **Submission of False Information:** The submission of false or misrepresented information on any form used by the University or an agent thereof.
- h. **Submitting Academic Work Twice for Credit:** Unless prior written and signed permission is obtained, 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.
- i. **Aiding or Abetting** any of the above academic offences.

### 45. Procedure on Suspicion of an Academic Offence

- a. An instructor who suspects plagiarism, cheating, or any other academic offence and has evidence to support the accusation, will contact the student to inform the student fully of the offence and present the evidence for it. The instructor will review the contents of the student's file in the Office of the Registrar to determine whether the record indicates a prior academic offense. The student may request that a third party (for example another faculty member, a teaching assistant, a staff member, or the ombudsperson) be present at this or any subsequent meetings.



- b. 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 Office of the Registrar to be placed in the student's file.
- c. If the matter is not resolved between the student and faculty member, or if it is a serious case (which may involve probation, or suspension), it will be discussed by the student, faculty member, and the Chair of the program involved. Discussions 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 discussions, 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.
- d. All forms, whatever the outcome, will be filed in the Office of the Registrar. The student may appeal any decisions of the Dean or President to the level of the Committee on Academic Appeals (see Academic Regulations 49, 50).

## 46. Academic 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.

If a student has been found guilty of an academic offense, the student will be subjected to a penalty or penalties appropriate to the offense. Normally, academic offenses will be dealt with in the first instance by the instructor. A range of penalties is described below:

- a. **Reprimand:** This is a written warning to a student from the Instructor, Program Chair or the Dean of the College that the student's behaviour is considered unacceptable to the University.
- b. **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 instructor, in consultation as may be appropriate with the Chair or Dean. Policies with respect to regrading and review of assignments or exams are under the direction and purview of the Program Chair.
- c. **Probation:** In addition to any other penalty which may be applied, the Dean of a student's College may place a student on probation, or may prohibit the student from taking a course or courses, or may recommend suspension, either for a specified period or indefinitely, to the President.
- d. **Suspension:** A student's Dean may recommend suspension, either for a specified period or indefinitely, to the President. On the recommendation of the Dean, the President may suspend a student from the University, either for a specified period or indefinitely. 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 Administrative Registrar and will be reviewed by the Senate Committee on Academic Appeals (SCAA).

## 47. Academic Standing - Definition

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. The minimum standard is defined as an academic average on nine or more credit hours of UNBC course work that produces a cumulative grade point average (CGPA) of at least 2.00.

## 48. Conditions of Academic Standing

- a. **Academic Probation:** "Academic Probation" constitutes a warning to a student that the student's academic performance has been at a level which, if continued, could disqualify the student from graduation; and further that continued performance below the required standard could lead to requirement to withdraw from the University on academic grounds.

Students may be placed on Academic Probation under the following conditions:

- i. Admission to the University on the basis of an unproven or unsuccessful previous university record
- ii. A UNBC cumulative GPA of less than 2.00 after attempting nine credits of course work
- iii. Imposition of a sanction following determination of academic dishonesty

Letters of permission will not be given to students on academic probation.

Students who have been placed on Academic Probation who achieve a Semester GPA (SGPA) of 2.00 or greater in subsequent semesters will be allowed to continue their studies at UNBC while on Academic Probation. Students are considered to have returned to good academic standing once their Cumulative GPA (CGPA) is 2.00 or greater. Students are not permitted to graduate while on Academic Probation (see Academic Regulation 32 (Graduation Constraints)).

- b. **Requirement to Withdraw:** The following circumstances may result in a requirement to withdraw from UNBC. These are:
  - i. Discovery that required documentation for admission was withheld, by the student, from the University;
  - ii. Failure to pay for tuition or university services;
  - iii. Failure to achieve an SGPA of 2.00 or higher after the completion of 30 credits while on Academic Probation. Normally, in this case, a requirement to withdraw from the University is for three semesters (one full calendar year);
  - iv. A decision by the President of the University that the suspension of a student, for reasons of unsatisfactory conduct, unsatisfactory academic performance, or other reasons clearly indicates that withdrawal from UNBC is in the best interest of 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. Students must provide a letter to the Registrar, stating their rationale for wishing to return to

## Regulations and Policies

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studies at UNBC and documenting any work completed or experience gained which would better qualify them to complete, successfully, work at UNBC.

Students who are permitted to return to studies at UNBC, return on academic probation, and are subject to the University's policy on academic standing and continuance found in the current calendar.

- c. **Second Requirement to Withdraw:** Students Required to Withdraw from the University a second time normally will not be considered for readmission for at least two full calendar years following the Requirement to Withdraw. Re-admission will only be on presentation of compelling evidence that the student is both able and prepared to succeed in University studies.

### 49. 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) is the final adjudicator on such matters. All formal appeals must be made through the Registrar, in writing and 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. 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.

### 50. Senate Committee on Academic Appeals: Procedures

The Senate Committee on Academic Appeals (SCAA) follows principles of natural justice. 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 consists 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. 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, Chair and/or Dean) will be notified and may also appear at the appeal, when available. 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). New evidence cannot be presented at the hearing.

If the appellant asks 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 hear the appeal based on the written submission. If there are compassionate or medical grounds for nonappearance, 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.

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 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 Secretary to Senate, in consultation with the Committee Chair as appropriate, 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 and to ensure that the appeal is both valid and cannot be resolved by other means. In some instances the review may lead to a reversal of the decision before review, while in other instances it may indicate there are insufficient grounds for an appeal or that further documentation is required. In all cases, however, any decision not to hear an appeal rests with the Committee.

### 51. 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. If both the instructor and the student agree on the basis of an informal review, the matter is thereby concluded and a change of grade is submitted if necessary.

Students who wish to appeal grades other than final grades, formally, should:

- a. obtain an Appeals Form from the Office of the Registrar and forward it to the Program Chair.
- b. if no resolution is reached within seven working days, proceed to the next step: student submits the form to the Dean.
- c. if not resolved within seven days, proceed to the next step: Dean submits form to the Administrative Registrar for advancement to the Senate Committee on Academic Appeals.

An appeal may result in a higher, equal or lower grade. The final recourse for all appeals is the Senate Committee on Academic Appeals.

### 52. 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, if possible. If instructor and student agree on the basis of an informal review, the Office of the Registrar is advised of a grade change and the matter is thereby concluded.

Students who wish to appeal their grade, formally, should obtain an Appeals Form from the Office of the Registrar, and take it to the instructor.

- a. 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.
- b. Instructors must provide students with supervised access to their final examination.
- c. If not resolved within 15 working days, proceed to the next step on the Appeals Form: student submits the form to the Program Chair.
- d. If not resolved within 7 further working days, proceed to the next step: student submits the form to the Dean.
- e. If not resolved within 7 further working days, go to the next step: Dean submits form to the Registrar for advancement to the Senate Committee on Academic Appeals (SCAA).

An appeal may result in a higher, equal or lower grade. The final recourse for all appeals is the SCAA.

### 53. Appeal Procedure on Requirement to Withdraw

"Requirement to Withdraw" is an academic decision under the purview of the student's College Dean. Therefore, a student's first recourse by way of appeal is the Dean. If the Dean agrees to rescind the requirement, the Dean informs the Office of the Registrar and no further action by the student is necessary.

Otherwise, any academic appeal on a requirement to withdraw must be made in writing to the Registrar and will be reviewed by the Senate Committee on Academic Appeals (SCAA).

### 54. University Closure/Weather

On rare occasions, the President (or designate) may elect 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.

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# 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 principle normally is achieved through an alternating sequence of four month work and study semesters. Recent introductions of parallel and internship co-op models have broadened student and employer opportunities with the possibility of longer work term experiences. 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.

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

Intake into the Co-operative Education program occurs throughout the academic year. Students planning to enter the Co-op program should attend information sessions held during the first month of classes and contact the Student Career Centre as early as possible.

To qualify and continue in the Co-operative Education option of their degree, a student must:

- be enrolled full time (9 credit hours)
- have a minimum cumulative grade point average of 2.50 with normally no grade lower than "D".
- have completed 30 credit hours before beginning the first Co-op Education work term semester.

Students who are required to withdraw from Co-op due to their academic standing may re-apply for admission to the Co-op program based upon re-qualification.

Transfer students should complete a study semester before going out on a work term semester however, they are encouraged to apply to the program in that semester. Students are normally required to successfully complete three work term semesters. Those students transferring from an approved Co-op program elsewhere and who have successfully completed a work term semester, may be exempt from their first and second work term semesters at UNBC, (refer to Co-operative Education Transferable Work Terms below). Students who complete the required work term semesters will receive a Co-op designation on their degree.

Students may experience their work term semesters in either the September, January or May semesters. Not all work semesters may be done in the Summer Semester with normally at least one in the September Semester and one in the January Semester. Students must end the Co-operative Education program on an academic term prior to graduation.

## Co-operative Education Transferable Work Terms

Co-operative Education Work Terms successfully completed at a British Columbia post-secondary institution will be eligible for transfer credit, on an individual basis, if they meet the following requirements:

1. The student must be accepted into the UNBC Co-op Education program and apply, in writing, to receive transfer of work terms.
2. The program in which the work term(s) was undertaken is provincially approved under the criteria of the Accountability Council of Co-operative Education of BC, or is nationally approved under the criteria of the Canadian Association for Co-operative Education.
3. The work term(s) is officially recognized, i.e., noted on the transcript, by the institution where the work term originated.
4. The credit for the work term(s) was granted for work experience typical of the same discipline into which the student is transferring.

## Co-operative Education Work Term Credit Challenge

UNBC Co-op Education allows students to challenge a Work Term on the basis of prior, relevant and satisfactory work experience. Students should discuss any potential challenge with the appropriate Co-ordinator for their major. Work Term Challenges are subject to the following:

1. To begin a Work Term Challenge, an Application for Course Challenge form must be initiated with the student's Co-ordinator by December 1 in the September term that the student applies to the Co-operative Education option of their program.
2. The UNBC Course Challenge fee will be assessed with the initiation of the Work Term Challenge forms. Current course challenge fees are listed in the UNBC calendar.
3. The Co-ordinator will assess the Work Term Challenge application and provide recommendations to the Director.
4. Applicants will be advised of the decision within two weeks of the submission.
5. Work Term credit by challenge is limited to the first two Work Term courses within the major.
6. Assessment of the Work Term Challenge will be carried out by the Student Career Centre based on the following:
  - An aggregate of 560 hours (minimum) relevant paid work experience not previously counted toward Work Term credit, practicum, internship and similar options.

- Verification required of employment and evaluation of performance from the employer(s).
  - Job descriptions outlining prior work experience, providing evidence that the student has acquired professional and personal knowledge and skills appropriate to the discipline or interdisciplinary field.
  - A portfolio appropriate to the discipline or interdisciplinary field which meets UNBC Co-op Education Work Term guidelines.
7. Once the challenge is approved, the result will be entered on the student's academic record on a pass or fail basis.

### Parallel Co-op Work Terms

A parallel work term is a mode which allows students to complete a work term by working 15 to 20 hours per week for a period not to exceed eight months. For example, a student can now work half-time for eight months rather than full-time for four months. Students are expected to be enrolled in a minimum of two courses for each semester of a parallel work term.

### Self-Developed Work Terms

The purpose of the new policy on self-developed work terms is to recognize that some students find some work placements as a result of their own contacts and networks. Students who wish to discuss whether a particular work term should be declared self-developed should talk to their coordinator before beginning that work term, and consult the co-op student handbook for the criteria used to define a self-developed work term.

### The Co-op Process

Once a student is registered in 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.

Students submit their resumés directly to employer(s) who choose a number of student applicants to interview. Once the interview process is complete, employers will make an offer to the successful applicant. Co-op students are expected to be flexible and responsive to appropriate work opportunities through BC and elsewhere.

Course descriptions for the Co-op option can be found in the UNBC course finder under the prefix COOP.

## Canadian Association for Co-operative Education

### Definition of Co-operative Education

UNBC is a member of the Canadian Association for Co-operative Education (CAFCE). A co-operative education program is a program that formally integrates a student's academic studies with work experience in co-operative employer organizations. The usual plan is for the student to alternate periods of experience in appropriate fields of business, industry, government, social services and the professions according to the following criteria.

- Each work situation is developed and/or approved by the co-operative educational institution as a suitable learning situation.
- The co-operative education student is engaged in productive work rather than merely observing.
- The co-operative education student received remuneration for the work performed.
- The co-operative education student's progress on the job is monitored by the co-operative education institution.
- The co-operative education student's performance on the job is supervised and evaluated by the student's employer.
- The time spent in periods of work experience must be at least thirty percent of the time spent in academic study.

For additional information, please visit the Student Career Centre web site at <http://www.unbc.ca/careercentre/>.

## Internship Courses

Internship courses are for those students who wish to have a more limited practical work experience and are unable to pursue the requirements of the Co-op program.

These courses differ from the Co-op program in that they are for one semester only. 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 courses are completely separate from the practica found in such programs as Nursing, Social Work and Education.

# Programs: Northern Advancement Program

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## Northern Advancement Program

### Introduction

The First Nations Centre, 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 First Nations Centre does not limit its 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 that will include an off-campus two-day retreat. 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.

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 First Nations Centre will coordinate the Northern Advancement 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

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 June 1. 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 coordinator or sponsoring organization

Once admitted to UNBC:

- students are required to attend a two-week orientation session prior to the first day of classes which includes an off-campus two-day retreat with staff. 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 are advised to complete nine to twelve credit hours in each of their first and second semesters as follows:

### Semester One

ARTS 101-3 Learning Strategies  
FNST 100-3 The Aboriginal Peoples of Canada  
Elective (three credit hours)

### Semester Two

ARTS 102-3 Research Writing  
Electives (six to nine credit hours)

## Student Success Initiative

University 101-3 (Introduction to Higher Education) 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 are 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.

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# 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. For the purpose of the Bachelor of Arts (General) all courses from the following areas are considered Humanities or Social Science:

- Anthropology
- Arts
- Economics
- Education
- English
- Environmental Planning
- Environmental Studies
- First Nations Studies
- History
- International Studies
- Northern Studies
- Philosophy
- Social Work
- Women' s Studies

Coursework from Commerce, Geography, Health and Human Sciences, Natural Resources Management, Outdoor Recreation and Tourism Management and Psychology has been approved on a case by case basis depending on its content. Please contact your program advisor for a list of approved courses in these areas.

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

## 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.

### Elective Requirement

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours.

## 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 (BA program)
- Outdoor Recreation and Tourism Management (BA Program)
- Philosophy (Minor program)
- Political Science (BA program)
- Russian Studies (Minor program)
- Women's Studies (BA program)

## BSc (Integrated)

The Bachelor of Science (Integrated) provides a broad science base and integrates more than one area of study. The program is built upon a foundation of Biology, Chemistry, Mathematics and Physics. The program allows students to transfer into single-discipline science majors built on a foundation of Biology, Chemistry, Mathematics and Physics, or alternatively to switch from them to the BSc (Integrated). 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 inclusion of all the required courses to be eligible for entry into programs in the desired professional area. Prior to starting the first year of study, students are strongly encouraged to consult with an appropriate Program Advisor for their anticipated area of concentration.

Areas of upper division concentration are:

1. Biology, Ecology and Biochemistry & Molecular Biology
2. Chemistry, Biochemistry and Molecular Biology
3. Computer Science
4. Environmental and Earth Sciences
5. Geography (Science) and GIS
6. Mathematics and Statistics
7. Natural Resources and Forestry
8. Physics



# Undergraduate Programs: Integrated Science

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Students enrolled in the Integrated major of the Bachelor of Science must successfully complete a total of 120 credit hours including a minimum of 45 credit hours from upper division (300 or 400 level) courses, and not less than 15 credit hours, at any level, of Humanities and Social Science courses. Humanities and Social Science courses may be selected from among the areas that are considered Humanities and Social Science for purposes of the BA (General). Students must complete two areas of upper division concentration listed above. Students must ensure completion of course prerequisites before registering in any course.

## Program Requirements

### Lower Division Requirement

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 120-1 General Chemistry Lab I  
CHEM 121-1 General Chemistry Lab II  
MATH 100-3 Calculus or MATH 105-3 Enriched Calculus  
and MATH 101-3 Calculus II

or  
MATH 152-3 Calculus for Non-majors  
and MATH 342-3 Biostatistics

PHYS 100-4 Introduction to Physics I  
or

PHYS 110-4 Introductory Physics I: Mechanics

PHYS 101-4 Introduction to Physics II  
or

PHYS 111-4 Introductory Physics II: Waves & Electricity

### Upper Division Requirement

Students must complete 18 upper division credit hours within each of two areas of concentration for a minimum of 36 credit hours.

*Note that if a course falls into more than one area of concentration, it may be counted in only one area of concentration.*

- 1) Eligible courses for the Biology, Ecology, and Biochemistry & Molecular Biology concentration

All Upper Division BIOL courses.

CHEM 306-3 Intermediary Metabolism  
CHEM 307-3 Proteins  
CHEM 308-3 Biochemistry Lab II  
CHEM 330-3 Nucleic Acids  
CHEM 340-3 Physical Biochemistry  
CHEM 405-3 Topics in Biochemistry  
CHEM 409-3 Enzymology

- 2) Eligible courses for the Chemistry, Biochemistry & Molecular Biology concentration

All Upper Division CHEM courses.

BIOL 423-3 Molecular Evolution and Ecology  
BIOL 424-3 Molecular Cell Physiology  
BIOL 425-3 Applied Genetics and Biotechnology

- 3) Eligible courses for the Computer Science concentration

All Upper Division CPSC courses except CPSC 311-3.

Students considering this area of concentration should include in the first year:

CPSC 100-4 Computer Programming I  
CPSC 141-3 Discrete Computational Mathematics  
CPSC 101-4 Computer Programming II  
CPSC 142-3 Discrete Computational Mathematics II

- 4) Eligible courses for the Environmental and Earth Sciences concentration

ENPL 305-3 Environmental Impact Assessment  
ENPL 402-3 Terrain Assessment

All Upper Division ENSC courses except ENSC 417-6 Designing Solutions in Environmental Engineering

FSTY 315-3 Forest Soil Management  
FSTY 425-3 Soil Formation and Classification  
FSTY 455-3 Biogeochemical Processes in Soil Systems  
GEOG 310-3 Hydrology  
GEOG 311-3 Concepts in Geomorphology  
GEOG 405-3 Fluvial Geomorphology  
GEOG 411-3 Advanced Elements in Geomorphology  
GEOG 412-3 Geomorphology of Cold Regions  
GEOG 414-3 Weathering Processes  
NREM 410-3 Watershed Management  
PHYS 307-3 Selected Topics in Environmental Physics

- 5) Eligible courses for the Geography (Science) and GIS concentration

GEOG 300-3 Geographic Information Systems  
GEOG 310-3 Hydrology  
GEOG 311-3 Concepts in Geomorphology  
GEOG 405-3 Fluvial Geomorphology  
GEOG 411-3 Advanced Elements in Geomorphology  
GEOG 412-3 Geomorphology of Cold Regions  
GEOG 413-3 Advanced GIS  
GEOG 414-3 Weathering Processes  
GEOG 432-3 Remote Sensing  
GEOG 457-3 Advanced Remote Sensing

- 6) Eligible courses for the Mathematics & Statistics concentration

All Upper Division MATH courses except MATH 342-3 Biostatistics.

- 7) Eligible courses for the Natural Resources and Forestry concentration

# Undergraduate Programs: Integrated Science, Anthropology

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All Upper Division FSTY courses except FSTY 310-3 Forest Economics.  
All Upper Division NREM courses except NREM 306-3 Society, Policy and Administration.  
All Upper Division NRES courses.

8) Eligible courses for the Physics concentration

All Upper Division PHYS courses except PHYS 307-3 Selected Topics in Environmental Physics.

## Elective Requirement

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours.

## Anthropology (BA Program)

Michel Bouchard, Associate Professor, and Program Chair  
Ellen Facey, Associate Professor  
Richard Lazenby, Associate Professor  
Jim McDonald, Associate Professor  
Angèle Smith, Assistant Professor  
Farid Rahemtulla, Assistant Professor  
Caroline Butler, Adjunct Professor  
Tracey Galloway, Adjunct Professor  
Laurie Ann Nock, Adjunct Professor  
Alan Segal, Adjunct Professor  
Data Barata, Assistant Professor  
Ritenda Tamang, Assistant Professor

Website: <http://www.unbc.ca/anthropology>

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 in archaeological, biological, linguistic and sociocultural anthropology. While a small number of mandatory courses will ensure that all students in the program share basic understanding 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 (Peoples and Cultures). The major requires students to take 54 credit hours in Anthropology courses (18 courses). At least 24 credit hours must be upper division Anthropology 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.

## Program Requirements

### Lower Division Requirement

#### 100 Level

ANTH 100-3 Archaeological and Biological Approaches  
ANTH 101-3 Peoples and Cultures

#### 200 Level

ANTH 200-3 Biological Anthropology  
ANTH 205-3 Introduction to Archaeology  
ANTH 210-3 Understanding Theory

Six additional credit hours from the 200 level from two of the following subfields: Social Anthropology, Biological Anthropology, and Archaeology.

### Upper Division Requirement

#### 300/400 Level

ANTH 300-3 Methods in Social Anthropology  
or ANTH 301-3 Archaeological Lab Methods  
ANTH 310-3 Applied Anthropology

Eighteen additional credits from 300 and 400 level Anthropology courses

### Subject Requirement

Nine credit hours of electives at any level in Anthropology to ensure completion of a minimum of 54 credit hours for the major.

## Elective Requirement

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

## BA Honours - Anthropology

The BA Honours - Anthropology provides a higher level of training and specialization for students planning to proceed to academic and professional postgraduate study. Acceptance into the Anthropology Honours Program is by written application to the Program Chair, in which the student identifies the subdiscipline of interest, provides a statement of career objectives, and attaches an unofficial copy of their current transcript. The Honours Program is open to all students majoring in Anthropology who:

1. have completed 60 credit hours of course work
2. have completed all lower level requirements for the major in Anthropology
3. possess a cumulative GPA of 3.33.

In addition to the requirements for the Major in Anthropology, the Honours student will complete 12 additional credit hours, for a minimum total of 132 credit hours to graduate. These 12 credit hours derive from three courses, in a directed sequence of study.

ANTH 500-3	Method and Theory Seminar
ANTH 501-3	Research Prospectus
ANTH 502-6	Honours Thesis

The minimum requirement for completion of a BA Honours - Anthropology is 132 credit hours.

## Joint Major in Anthropology and Geography (BA)

The minimum requirement for completion of a Bachelor of Arts with a Joint Major in Anthropology and Geography is 120 credit hours.

## Program Requirements

### Lower Division Requirement

ANTH 100-3	Archaeological and Biological Approaches
ANTH 101-3	Peoples and Cultures

One of:

ECON 100-3	Microeconomics
ECON 101-3	Macroeconomics

GEOG 100-3	Environments and People
GEOG 101-3	Human Geography
POLS 100-3	Contemporary Political Issues

One of:

FNST 100-3	Aboriginal Peoples of Canada
HIST 110-3	Indigena
HIST 210-3	Canada Before Confederation
HIST 211-3	Canada Since Confederation

ANTH 200-3	Biological Anthropology
ANTH 205-3	Introduction to Anthropology
ANTH 210-3	Understanding Theory

One of:

ANTH 201-3	Medical Anthropology
ANTH 206-3	Ethnography in Northern British Columbia
ANTH 207-3	Popular Culture
ANTH 209-3	Pacific Ethnography
ANTH 211-3	Anthropology Through Film
ANTH 214-3	Anthropology of Europe
ANTH 215-3	Anthropology of Canada

ECON 205-3	Statistics for Social and Management Sciences
GEOG 202-3	Economic Geography
GEOG 204-3	Introduction to GIS for the Social Sciences
GEOG 206-3	Social Geography

### Upper Division Requirement

ANTH 300-3	Methods in Social Anthropology
ANTH 310-3	Applied Anthropology

One of:

COMM 332-3	Business and Professional Ethics
ENVS 414-3	Environmental and Professional Ethics
POLS 317-3	Ethics

One of:

ANTH 451-3	Traditional Use Studies
ENPL 419-3	Social Research Methods

GEOG 301-3	Cultural Geography
GEOG 305-3	Political Geography
GEOG 309-3	Geographies of Migration and Settlement
GEOG 403-3	Aboriginal Geography

Two of:

ANTH 400-3	Topics in Anthropological Theory
ANTH 401-3	Anthropological Perspectives on Inequality
ANTH 404-3	Comparative Study of Indigenous Peoples of the World
ANTH 405-3	Topics in Landscapes and Place
ANTH 406-3	Feminist Perspectives in Anthropology
ANTH 407-3	Topics in British Columbia Ethnography
ANTH 410-3	Theory of Nation and State
ANTH 413-3	Topics in Environmental Anthropology
ANTH 414-3	Religion, Ideology, and Belief Systems
ANTH 415-3	Economic Anthropology
ANTH 419-3	Political and Legal Anthropology

# Undergraduate Programs: Anthropology

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Two of:

- GEOG 308-3 Introduction to Medical Geography
- GEOG 401-3 Resource Geography
- GEOG 422-3 Geography of the World Economy
- GEOG 424-3 Social Geography of Northern Communities
- GEOG 426-3 Culture, Rights & Power
- GEOG 428-3 Advanced Medical Geography

## Elective Requirement

Elective course hours as necessary to ensure completion of a minimum of 120 credit hours, of which at least 21 credit hours must be at the 300 and 400 level.

## Minor in Anthropology: Archaeological Stream

The minor in Anthropology Archaeological Stream requires completion of a total of 21 credit hours (seven courses), consisting of four lower division courses (12 credit hours) and three upper division courses (nine credit hours). 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 203-3 Archaeology of the Americas
- ANTH 205-3 Introduction to Archaeology
- ANTH 212-3 Archaeology of the Old World

Select nine credit hours from:

- ANTH 301-3 Archaeological Lab Methods
- ANTH 325-3 Archaeological Theory
- ANTH 335-3 Archaeological Heritage Management
- ANTH 380-3 Special Topics in Archaeology
- ANTH 409-3 Topics in British Columbia Archaeology
- ANTH 425-3 Introduction to Zooarchaeology
- ANTH 430-3 Stone Tools in Archaeology
- ANTH 440-(3-6) Internship
- 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 18 credit hours (six courses), consisting of two lower division courses (six credit hours) and four upper division courses (12 credit hours). With approval of the Chair, a maximum of one course (three credit hours) used to fulfill requirements for a non-Anthropology major (or another minor) may also be used to fulfill program requirements for the minor in Anthropology Biological Stream.

### Requirements

- ANTH 100-3 Archaeological and Biological Approaches
- ANTH 200-3 Biological Anthropology
- ANTH 312-3 Human Adaptability

Select nine credit hours from:

- ANTH 311-3 Nutritional Anthropology
- ANTH 320-3 Biology of Circumpolar Peoples
- ANTH 411-3 Topics in Biological Anthropology
- ANTH 420-3 Races, Racism, and Human Biology
- ANTH 499-(3-6) Independent Study

## Minor in Anthropology: General Stream

The minor requires completion of a total of 18 credit hours (six courses), consisting of two lower division courses (six credit hours) and four upper division Anthropology courses (12 credit hours) no more than two of which would be chosen from any single existing Anthropology Minor stream.

### Requirements

#### Lower Division Requirement

- ANTH 100-3 Archaeological and Biological Approaches  
or ANTH 101-3 Peoples and Cultures  
and ANTH 210-3 Understanding Theory

#### Upper Division Requirement

Four upper division courses, no more than two of which would be chosen from any single existing minor streams.

## Minor in Anthropology: Sociocultural Stream

The minor requires completion of a total of 18 credit hours (six courses), consisting of two lower division courses (six credit hours) and four upper division courses (12 credit hours).

### Requirements

Select six credit hours from:

- ANTH 101-3 Peoples and Cultures  
or ANTH 211-3 Anthropology Through Film  
and ANTH 210-3 Understanding Theory

Select 12 credit hours from:

- ANTH 300-3 Methods in Social Anthropology
- ANTH 303-3 Archives/Texts/Museums
- ANTH 304-3 Kinship and Social Organization
- ANTH 305-3 Circumpolar Ethnography

# Undergraduate Programs: Anthropology, Biochemistry & Molecular Biology

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ANTH 306-3	Culture and Communication
ANTH 310-3	Applied Anthropology
ANTH 400-3	Topics in Anthropological Theory
ANTH 401-3	Anthropological Perspectives on Inequality
ANTH 404-3	Indigenous Peoples of the World
ANTH 405-3	Topics in Landscape and Place
ANTH 406-3	Feminist Perspectives
ANTH 407-3	Topics in BC Ethnography
ANTH 410-3	Theory of Nation and State
ANTH 413-3	Environmental Anthropology
ANTH 414-3	Religion, Ideology, and Belief Systems
ANTH 415-3	Economic Anthropology
ANTH 419-3	Political and Legal Anthropology
ANTH 421-3	Ethnographic Field Methods
ANTH 422-3	Ethnographic Research Project
ANTH 423-3	Urban Anthropology

## Biochemistry & Molecular Biology (BSc Program)

Kathy Lewis, Professor, and Program Co-Chair  
Kerry Reimer, Associate Professor, and Program Co-Chair  
Keith Egger, Professor  
Chow Lee, Associate Professor  
Brent Murray, Associate Professor  
Mark Shrimpton, Associate Professor  
Cecelia Alstrom-Rapaport, Assistant Professor  
Andrea Gorrell, Assistant Professor  
Geoffrey Payne, Assistant Professor  
Guy Plourde, Associate Professor  
Dezene Huber, Assistant Professor and Canada Research Chair, Forest Entomology and Chemical Ecology  
Stephen Rader, Assistant Professor  
Daniel Erasmus, Senior Lab Instructor

Website: <http://www.unbc.ca/biochemistry>

Biochemistry and Molecular Biology are the disciplines upon which Biotechnology is based. The Biochemistry and Molecular Biology program provides students with a thorough understanding of all aspects of the life sciences, including practical and theoretical studies along with an understanding of ethical issues. The course of study is truly an amalgam of both disciplines. It also includes a grounding in organic chemistry and the physical sciences as these are the disciplines from which modern Biochemistry and Molecular Biology were born. The degree is designed with sufficient flexibility to allow students to follow their interests and they can expand the degree to include minors or course work in any number of complementary disciplines from computer science to mathematics to business to environmental studies.

## Major in Biochemistry and Molecular Biology

The major in Biochemistry and Molecular Biology requires students to take at least 85 credit hours of Biology and Chemistry courses, of which 42 credit hours must be upper division (i.e. 300 or 400 level).

The minimum requirement for completion of a Bachelor of Science with a major in Biochemistry and Molecular Biology is 129 credit hours.

### 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 120-1	General Chemistry Lab I
CHEM 121-1	General Chemistry Lab II
PHYS 100-4	Introduction to Physics I
	or PHYS 110-4 Introductory Physics I: Mechanics
PHYS 101-4	Introduction to Physics II
	or PHYS 111-4 Introductory Physics II: Waves & Electricity

One of the following three options:

MATH 100-3 Calculus I  
and MATH 101-3 Calculus II

or MATH 105-3 Enriched Calculus  
and MATH 101-3 Calculus II

or MATH 150-3 Finite Mathematics for Business and Economics  
and MATH 152-3 Calculus for Non-majors

*Students are strongly encouraged to take MATH 100-3 or MATH 105-3, and MATH 101-3, for the first year Mathematics requirement.*

##### 200 Level

BIOL 201-3	Ecology
BIOL 203-3	Microbiology
BIOL 210-3	Genetics
CHEM 201-3	Organic Chemistry I
CHEM 203-3	Organic Chemistry II
CHEM 204-3	Introductory Biochemistry
CHEM 250-1	Organic Chemistry Lab I
CHEM 251-1	Organic Chemistry Lab II
CHEM 255-1	Biochemistry Lab I

#### Upper Division Requirement

##### 300 Level

BIOL 311-3	Cell and Molecular Biology
BIOL 312-3	Molecular Cell Physiology

# Undergraduate Programs: Biochemistry and Molecular Biology

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BIOL 323-3	Evolutionary Biology
CHEM 306-3	Intermediary Metabolism
CHEM 307-3	Proteins
CHEM 308-3	Biochemistry Lab II
CHEM 330-3	Nucleic Acids
CHEM 340-3	Physical Biochemistry

## 400 Level

BIOL 423-3	Molecular Evolution and Ecology
BIOL 425-3	Applied Genetics and Biotechnology
CHEM 405-3	Topics in Biochemistry
CHEM 409-3	Enzymology

## Subject Requirements

Twelve additional credit hours of Biology and/or Chemistry at the 200 level or above, of which at least 6 credit hours must be at the 300 or 400 level to ensure completion of 42 upper division Biology and/or Chemistry credits. Note: NRES 430-6 can count toward this requirement with permission of the Program Chair.

## Elective Requirements

Elective credit hours as necessary to ensure completion of 129 credit hours.

## Minor in Biochemistry and Molecular Biology

The minor in Biochemistry and Molecular Biology is designed to provide students with a core of study in the field of Biochemistry and Molecular Biology. The program of study includes a grounding in chemistry and biology since these are the traditional disciplines from which modern Biochemistry and Molecular Biology were born.

The minimum requirement for completion of the minor in Biochemistry and Molecular Biology is 41 credit hours, of which at least 12 credit hours must be at the upper division level.

## 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 120-1	General Chemistry Lab I
CHEM 121-1	General Chemistry Lab II

## 200 Level

BIOL 210-3	Genetics
CHEM 201-3	Organic Chemistry I
CHEM 203-3	Organic Chemistry II
CHEM 204-3	Introductory Biochemistry
CHEM 255-1	Biochemistry Lab I

Note: Students are allowed to double-count all applicable first and second year courses; however, they must take upper division courses for the minor that are not included in their major requirements or upper division subject requirements to ensure completion of 12 upper division credit hours outside of their major.

Students must ensure that all prerequisites are fulfilled prior to taking a course.

## 300 and 400 Level

12 credit hours must be chosen from the following:

BIOL 311-3	Cell and Molecular Biology
BIOL 312-3	Molecular Cell Physiology
BIOL 323-3	Evolutionary Biology
BIOL 423-3	Molecular Evolution and Ecology
BIOL 425-3	Applied Genetics and Biotechnology
CHEM 306-3	Intermediary Metabolism
CHEM 307-3	Proteins
CHEM 308-3	Biochemistry Lab II
CHEM 330-3	Nucleic Acids
CHEM 340-3	Physical Biochemistry
CHEM 405-3	Topics in Biochemistry
CHEM 409-3	Enzymology

## Biology (BSc Program)

Kathy Lewis, Professor, and Program Chair  
Keith Egger, Professor  
William McGill, Professor  
Darwyn Coxson, Professor  
Staffan Lindgren, Professor  
Russell Dawson, Associate Professor, and Canada Research Chair, Avian Ecology  
Michael Gillingham, Associate Professor  
Scott Green, Associate Professor  
Hugues Massicotte, Associate Professor  
Brent Murray, Associate Professor  
Katherine Parker, Associate Professor, and Ian McTaggart Cowan Muskwa Kechika Research Chair  
Ken Otter, Associate Professor  
Mark Shrimpton, Associate Professor  
Cecilia Alstrom-Rapaport, Assistant Professor  
Dezene Huber, Assistant Professor, and Canada Research Chair, Forest Entomology and Chemical Ecology  
Chris Johnson, Assistant Professor  
Lisa Poirier, Assistant Professor  
Jane Young, Assistant Professor  
Brian Aukema, Adjunct Professor  
Bryan Bogdanski, Adjunct Professor  
Phil Burton, Adjunct Professor  
Alan Carroll, Adjunct Professor  
Doug Heard, Adjunct Professor  
Janet Marsh, Adjunct Professor  
Susan Stevenson, Adjunct Professor  
Kimberley Wallin, Adjunct Professor  
Jenia Blair, Senior Lab Instructor  
Saphida Migabo, Senior Lab Instructor  
Doug Thompson, Senior Lab Instructor  
Roy Rea, Senior Lab Instructor

Website: <http://www.unbc.ca/biology>

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.

## Major in Biology

The major in Biology requires students to take at least 65 credit hours of biology-oriented courses, of which 42 credit hours must be upper division (i.e., 300 or 400 level). Note: 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.

## 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 120-1 General Chemistry Lab I  
CHEM 121-1 General Chemistry Lab II

NRES 100-3 Communications in Natural Resources and Environmental Studies  
or ENGL 170-3 Writing and Communication Skills

MATH 152-3 Calculus for Non-majors  
or MATH 100-3 Calculus I  
or MATH 105-3 Enriched Calculus

PHYS 100-4 Introduction to Physics  
or PHYS 110-4 Introductory Physics I: Mechanics

PHYS 101-4 Introduction to Physics I  
or PHYS 111-4 Introductory Physics II: Waves & Electricity

\*Recommended: MATH 101-3 Calculus II

**Students who are interested in pursuing professional programs should contact the program advisor regarding the correct course sequences required for individual programs.**

#### 200 Level

BIOL 201-3 Ecology  
BIOL 202-3 Invertebrate Zoology  
BIOL 203-3 Microbiology  
BIOL 204-3 Plant Biology  
BIOL 210-3 Genetics  
CHEM 201-3 Organic Chemistry I  
CHEM 203-3 Organic Chemistry II  
CHEM 204-3 Introductory Biochemistry

Two of:

ENSC 201-3 Introduction to Atmospheric Science  
ENSC 202-3 Introduction to Aquatic Systems  
FSTY 205-3 Introduction to Soil Science  
GEOG 210-3 Geomorphology

# Undergraduate Programs: Biology

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## Upper Division Requirement

### 300 Level

BIOL 311-3	Cell and Molecular Biology
BIOL 323-3	Evolutionary Biology
BIOL 325-3	Ecological Analyses
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 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

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

Any 300 or 400 level BIOL courses

ENSC 406-3	Environmental Modelling
FSTY 309-3	Fire Ecology and Management

## Elective Requirements

Elective credit hours as necessary to ensure completion of a minimum of 126 credit hours.

## 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 four courses (consisting of 100 level courses plus two courses at the 200 level or beyond to a maximum of 14 credit hours) which are 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.



## Minor in Biology and Conservation

The minor in Biology and Conservation provides students with a background in ecological principles and techniques associated with the management and conservation of animal and plant populations and communities associated with a range of ecosystems. Upon completion of the minor, students will have a broad background in genetics and evolution, population and community dynamics, ecological analysis, and the key problems and approaches for conserving biological diversity.

The minor in Biology and Conservation requires the completion of a minimum of 27 credit hours of study (plus associated prerequisites). A maximum of two courses (6 credit hours) used to fulfill the requirements for a major, or another minor, may also be used to fulfill requirements for this minor. Forest Ecology and Management Majors will have the following pre-requisites as part of the major core requirements. Students from other majors will need to fulfill the pre-requisite requirements for this minor.

BIOL 101-4	Introductory Biology I
BIOL 102-4	Introductory Biology II
BIOL 201-3	Ecology
MATH 240-3	Basic Statistics

### Required Courses

BIOL 210-3	Genetics
BIOL 325-3	Ecological Analysis
BIOL 410-3	Population and Community Ecology
BIOL 411-3	Conservation Biology

Five of the following courses, three of which must be Biology courses:

NREM 204-3	Introduction to Wildlife and Fisheries
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 321-3	Animal Physiology
BIOL 323-3	Evolutionary Biology
BIOL 350-3	Ethnobotany
BIOL 401-3	Plant-Microbial Interactions
BIOL 402-3	Aquatic Plants
BIOL 404-3	Plant Ecology
BIOL 406-3	Fish Ecology
BIOL 412-3	Wildlife Ecology
BIOL 440-3	Internship
ENPL 305-3	Environmental Impact Assessment
ENVS 325-3	Global Environmental Change
NREM 413-3	Agroforestry

## School of Business (BComm Program)

Robert Ellis, Professor, and Program Chair  
Mike Ivanof, MBA Program Director  
Deborah Poff, Professor  
Han Donker, Associate Professor  
Lloyd Spurrell, Associate Professor  
Jing Chen, Assistant Professor  
Sungchul Choi, Assistant Professor  
Elizabeth Croft, Assistant Professor  
Balbinder Deo, Assistant Professor  
Xin Ge, Assistant Professor  
Alex Ng, Assistant Professor  
John Pankratz, Assistant Professor  
Pei Shao, Assistant Professor  
Rick Tallman, Assistant Professor  
Hongping Tan, Assistant Professor  
Wendy Fellers, Lecturer  
Charles Scott, Lecturer  
Theo van der Pol, Lecturer

Website: <http://www.unbc.ca/commerce>

The School of Business 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 offers students the ability to major in the areas of Accounting, Finance, General Business, Human Resources Management, International Business or Marketing. 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.

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

Students not having the appropriate prerequisites for any courses must consult with the Business Advisor.

# Undergraduate Programs: Business

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## Common Requirements for all Business Students:

Note: Students enrolling in any course required for a major in the Bachelor of Commerce degree must have completed all prerequisite courses with a minimum of "C-" or better. In exceptional circumstances the Program Chair may waive this requirement on a case by case basis.

### 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 of courses required for the Commerce degree 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  
CPSC 250-3 Applied Business Computing

ECON 205-3 Statistics for the Social and Management Sciences  
or MATH 240-3 Basic Statistics

### 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 Strategic Management  
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.

### Program Requirements

Note: Students enrolling in any course required for a major in the Bachelor of Commerce degree must have completed all prerequisite courses with a minimum of "C-" or better. In exceptional circumstances the Program Chair may waive this requirement on a case by case basis.

#### 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 of courses required for the Commerce degree 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 not having the appropriate prerequisites for any courses must consult with the Business Advisor.

## 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
CPSC 250-3	Applied Business Computing
ECON 205-3	Statistics for the Social and Management Sciences or MATH 240-3 Basic Statistics

## 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	Strategic Management
COMM 411-3	Advanced Management Accounting
ECON 310-3	Intermediate Microeconomic Theory
ECON 311-3	Intermediate Macroeconomic Theory

One of:

COMM 410-3	Accounting Theory
COMM 414-3	Advanced Financial Accounting

Two of:

COMM 313-3	Personal Taxation
COMM 314-3	Corporate Taxation
COMM 315-3	International Accounting
COMM 412-3	Auditing
COMM 413-3	Accounting: Advanced Topics

## Elective Requirement

Elective credit hours as necessary 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.

## Program Requirements

Note: Students enrolling in any course required for a major in the Bachelor of Commerce degree must have completed all prerequisite courses with a minimum of "C-" or better. In exceptional circumstances the Program Chair may waive this requirement on a case by case basis.

## 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 of courses required for the Commerce degree 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 not having the appropriate prerequisites for any courses must consult with the Business Advisor.

# Undergraduate Programs: Business

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## 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
- CPSC 250-3 Applied Business Computing
- ECON 205-3 Statistics for the Social and Management Sciences  
or MATH 240-3 Basic Statistics

## 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 Strategic Management
- 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

Two of:

- COMM 322-3 International Financial Management
- COMM 323-3 Risk, Insurance, and Financial Planning
- COMM 421-3 Portfolio Theory and Management
- COMM 423-3 Financial Engineering
- COMM 429-3 Finance: Advanced Topics

## Elective Requirement

Elective credit hours as necessary 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.

## Program Requirements

Note: Students enrolling in any course required for a major in the Bachelor of Commerce degree must have completed all prerequisite courses with a minimum of "C-" or better. In exceptional circumstances the Program Chair may waive this requirement on a case by case basis.

## 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 of courses required for the Commerce degree 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 not having the appropriate prerequisites for any courses must consult with the Business Advisor.

### 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
- CPSC 250-3 Applied Business Computing
- ECON 205-3 Statistics for the Social and Management Sciences  
or MATH 240-3 Basic Statistics

## 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
- COMM 351-3 Management Information Systems
- COMM 400-3 Strategic Management
- ECON 310-3 Intermediate Microeconomic Theory
- ECON 311-3 Intermediate Macroeconomic Theory

**Twelve credit hours selected from any of the other four majors or from the following (with no more than six credit hours in any one major area):**

COMM 331-3 Organizational Theory  
COMM 332-3 Business and Professional Ethics  
COMM 333-3 Women in Organizations  
or ECON 301-3 Women and the Economy  
COMM 430-3 Organization Studies: Selected Topics  
COMM 431-3 Industrial Relations  
COMM 432-3 Cross-cultural Workplace Practices  
COMM 439-3 HRM: Selected Topics  
COMM 450-3 Total Quality Management  
COMM 498-(3-6) Special Topics in Business Administration

## Elective Requirement

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours.

## Major in Human Resources Management

The success of any company or organization rests on the commitment and imagination of the people who are its members. Effective human resources management enables an organization to build success through people. By attracting qualified employees, developing their talents through training, fairly compensating them for their efforts and protecting their health and safety, we create organizations that are productive, innovative, and satisfying to employees. We provide our students with the knowledge and skills to effectively manage the people in an organization. Human resources management is a professional field that is growing rapidly in Canada and there are many career opportunities within this exciting field.

The minimum requirement for completion of a Bachelor of Commerce with a major in Human Resources Management is 120 credit hours.

## Program Requirements

Note: Students enrolling in any course required for a major in the Bachelor Commerce degree must have completed all prerequisite courses with a minimum of C- or better. In exceptional circumstances the Program Chair may waive this requirement on a case by case basis.

### 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

\*Students transferring with 30 or more credit hours of courses required for the Commerce degree 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 not having the appropriate prerequisites for any courses must consult with the Business Advisor.

#### 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  
CPSC 250-3 Applied Business Computing  
ECON 205-3 Statistics for the Social and Management Sciences  
or MATH 240-3 Basic Statistics

### Upper Division Requirement

#### 300 and 400 Level

COMM 300-3 Introduction to Business Law  
COMM 304-3 Employment Law in Canada  
COMM 320-3 Financial Management II  
COMM 330-3 Human Resource Management  
COMM 334-3 Strategic Human Resources Planning  
COMM 335-3 Organizational Effectiveness  
COMM 350-3 Production and Operations Management  
COMM 351-3 Management Information Systems  
COMM 400-3 Strategic Management  
COMM 431-3 Industrial Relations  
COMM 433-3 Recruitment, Selection and Retention  
COMM 434-3 Compensation  
COMM 435-3 Organizational Learning, Development and Training  
COMM 436-3 Workplace Health and Safety  
ECON 310-3 Intermediate Microeconomic Theory  
ECON 311-3 Intermediate Macroeconomic Theory

## Elective Requirement

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours.

# Undergraduate Programs: Business

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## 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.

### Program Requirements

Note: Students enrolling in any course required for a major in the Bachelor of Commerce degree must have completed all prerequisite courses with a minimum of "C-" or better. In exceptional circumstances the Program Chair may waive this requirement on a case by case basis.

#### 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 of courses required for the Commerce degree 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 not having the appropriate prerequisites for any courses must consult with the Business Advisor.

##### 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

CPSC 250-3 Applied Business Computing  
ECON 205-3 Statistics for the Social and Management Sciences  
or MATH 240-3 Basic Statistics

#### 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 Strategic Management  
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

Elective credit hours as necessary to ensure completion of a minimum 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.

### Program Requirements

Note: Students enrolling in any course required for a major in the Bachelor of Commerce degree must have completed all prerequisite courses with a minimum of "C-" or better. In exceptional circumstances the Program Chair may waive this requirement on a case by case basis.

## 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 of courses required for the Commerce degree 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 not having the appropriate prerequisites for any courses must consult with the Business Advisor.

### 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  
CPSC 250-3 Applied Business Computing

ECON 205-3 Statistics for the Social and Management Sciences  
or MATH 240-3 Basic Statistics

## 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 Behavioural Marketing  
COMM 350-3 Production and Operations Management  
COMM 351-3 Management Information Systems  
COMM 400-3 Strategic Management  
COMM 442-3 Marketing Strategy  
COMM 443-3 Marketing Research  
ECON 310-3 Intermediate Microeconomic Theory  
ECON 311-3 Intermediate Macroeconomic Theory

Two of:

COMM 340-3 Marketing Communications  
COMM 341-3 Sales Management  
COMM 342-3 Services Marketing  
COMM 344-3 Marketing Channels  
COMM 345-3 Retail Management  
COMM 441-3 International Marketing  
COMM 449-3 Advanced Topics in Marketing

## Elective Requirement

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours.

## Minor in General Business

The Minor in General Business is designed for students from outside the School of Business who are interested in obtaining skills and knowledge of business management. It will appeal to students who anticipate becoming involved in the supervision or management of work units or organizations in their careers. Students can obtain a minor in General Business within their degree program by completing 24 credit hours.

The minor consists of 12 credits at the lower division level (4 courses) and 12 credits (4 courses) at the upper division level.

### Required

COMM 100-3 Introduction in Canadian Business

Three of:

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

Four of:

COMM 300-3 Introduction to Business Law  
COMM 302-3 Entrepreneurship  
COMM 303-3 Introduction to International Business  
COMM 320-3 Financial Management II  
COMM 330-3 Human Resource Management  
COMM 332-3 Business and Professional Ethics  
COMM 343-3 Behavioural Marketing  
COMM 350-3 Production and Operations Management  
COMM 351-3 Management Information Systems  
COMM 431-3 Industrial Relations  
COMM 432-3 Cross-cultural Workplace Practices

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 General Business.

# Undergraduate Programs: Chemistry

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## Chemistry (BSc Program)

Guy Plourde, Associate Professor  
Chow H. Lee, Associate Professor, and National Cancer Institute of Canada Research Scientist  
Ron Thring, Professor  
Margot Mandy, Associate Professor  
Kerry Reimer, Associate Professor, and Acting Chair  
Todd Whitcombe, Associate Professor  
Vinay Choyton, Assistant Professor  
David Dick, Assistant Professor  
Andrea Gorrell, Assistant Professor  
Stephen Rader, Assistant Professor  
Martha Stark, Adjunct Professor  
Alida Hall, Senior Lab Instructor  
Umesh Parshotam, Senior Lab Instructor  
Daniel Erasmus, Senior Lab Instructor

Website: <http://www.unbc.ca/chemistry>

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 or minor 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 64 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 128 credit hours.

## 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 120-1 General Chemistry Lab I  
CHEM 121-1 General Chemistry Lab II

CPSC 100-4 Computer Programming I  
or CPSC 110-3 Introduction to Computer Systems and Programming

MATH 100-3 Calculus I  
or MATH 105-3 Enriched Calculus

MATH 101-3 Calculus II

PHYS 100-4 Introduction to Physics I  
or PHYS 110-4 Introductory Physics I: Mechanics

and PHYS 101-4 Introduction to Physics II  
or PHYS 111-4 Introductory Physics II: Waves and Electricity

PHYS 110-4 and PHYS 111-4 are strongly recommended.

#### 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 Introductory Biochemistry  
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 340-3 Introduction to Probability  
MATH 342-3 Biostatistics

## 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 315-3 Physical Chemistry Lab  
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 Advanced Laboratory I  
CHEM 407-3 Advanced Laboratory 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

Elective credit hours as necessary to ensure completion of a minimum of 128 credit hours. A total of 54 credit hours of upper division study (300 and 400 level courses) must be successfully completed to meet degree requirements.

## 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 (September)

CHEM 100-3 General Chemistry I  
CHEM 120-1 General Chemistry Lab I  
BIOL 101-4 Introductory Biology I  
CPSC 100-4 Computer Programming I  
or CPSC 110-3 Introduction to Computer Systems and Programming  
MATH 100-3 Calculus I  
PHYS 100-4 Introduction to Physics I  
or PHYS 110-4 Introductory Physics I: Mechanics

## Semester Two (January)

CHEM 101-3 General Chemistry II  
CHEM 121-1 General Chemistry Lab II  
MATH 101-3 Calculus II  
PHYS 101-4 Introduction to Physics II  
or PHYS 111-4 Introductory Physics II: Waves and Electricity  
BIOL 102-4 Introductory Biology II

## Semester Three (September)

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

Three (3) Math or elective credits

## Semester Four (Winter)

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

Three (3) Math or elective credits

## 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 126 credit hours.

MATH 342-3 (Biostatistics) may not be used for credit towards any Mathematics or Computer Science major, minor, or joint major.

MATH 150-3 (Finite Mathematics for Business and Economics) may not be used for credit towards any Mathematics or Computer Science major or joint major.

## Program Requirements

### Lower Division Requirement

CHEM 100-3 General Chemistry I  
CHEM 101-3 General Chemistry II  
CHEM 120-1 General Chemistry Lab I  
CHEM 121-1 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 142-3 Discrete Computational Mathematics II  
CPSC 200-3 Algorithm Analysis and Development  
CPSC 230-4 Introduction to Logic Design  
CPSC 231-4 Computer Organization and Architecture  
CPSC 281-3 Data Structures I

MATH 100-3 Calculus I  
or MATH 105-3 Enriched Calculus

MATH 101-3 Calculus II  
MATH 220-3 Linear Algebra

### Upper Division Requirement

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 320-3 Inorganic Chemistry II  
or CHEM 321-3 Inorganic Chemistry III

\*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).

\*Nine 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 335-3 Numerical Analysis I  
MATH 340-3 Introduction to Probability

# Undergraduate Programs: Chemistry

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## Elective Requirement

Elective credit hours as necessary to ensure completion of a minimum of 126 credit hours.

## Joint Major in Chemistry/ Mathematics

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

MATH 342-3 (Biostatistics) may not be used for credit towards any Mathematics major, minor, or joint major.

MATH 150-3 (Finite Mathematics for Business and Economics) may not be used for credit towards any Mathematics major or joint major.

## Program Requirements

### Lower Division Requirement

CHEM 100-3 General Chemistry I  
CHEM 101-3 General Chemistry II  
CHEM 120-1 General Chemistry Lab I  
CHEM 121-1 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  
or MATH 105-3 Enriched Calculus  
MATH 101-3 Calculus II  
MATH 200-3 Calculus III  
MATH 201-3 Introduction to Complex Analysis  
MATH 220-3 Linear Algebra  
MATH 226-3 Advanced Linear Algebra  
MATH 230-3 Linear Differential Equations and Boundary Value Problems  
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  
or CHEM 305-3 Physical Chemistry III  
CHEM 310-3 Analytical Chemistry II  
or CHEM 311-3 Analytical Chemistry III  
CHEM 320-3 Inorganic Chemistry II  
or CHEM 321-3 Inorganic Chemistry III

\*Nine credit hours of 300 or 400 level Chemistry  
Six credit hours of 400 level Chemistry

MATH 320-3 Survey of Algebra  
MATH 335-3 Numerical Analysis I  
MATH 371-3 Probability and Statistics for Scientists and Engineers

\*Nine credit hours of 300 or 400 level Mathematics  
Six credit hours of 400 level Mathematics

\*Three of these 18 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

Elective credit hours as necessary to ensure completion of a minimum of 125 credit hours.

## Joint Major in Chemistry/Physics

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Chemistry and Physics is 126 credit hours.

PHYS 307-3 (Selected Topics in Environmental Physics) may not be used as Physics credit toward any Physics major, minor, or joint major.

## Program Requirements

### Lower Division Requirement

CHEM 100-3 General Chemistry I  
CHEM 101-3 General Chemistry II  
CHEM 120-1 General Chemistry Lab I  
CHEM 121-1 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  
or MATH 105-3 Enriched Calculus  
MATH 101-3 Calculus II  
MATH 200-3 Calculus III  
MATH 220-3 Linear Algebra  
MATH 230-3 Linear Differential Equations and Boundary Value Problems  
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

# Undergraduate Programs: Chemistry, Computer Science

## Upper Division Requirement

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 320-3 Inorganic Chemistry II  
or CHEM 321-3 Inorganic Chemistry III  
CHEM 315-3 Physical Chemistry Lab

Six credit hours of 300 or 400 level Chemistry  
Six credit hours of 400 level Chemistry

One of:

MATH 333-3 Partial Differential Equations  
MATH 334-3 Ordinary Differential Equations  
PHYS 300-3 Classical Mechanics  
PHYS 302-3 Quantum Mechanics I  
PHYS 390-3 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

Elective credit hours as necessary to ensure completion of a minimum of 126 credit hours.

## 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 (14 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 29 credit hours.

### 100 Level

CHEM 100-3 General Chemistry I  
CHEM 101-3 General Chemistry II  
CHEM 120-1 General Chemistry Lab I  
CHEM 121-1 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\* Introductory Biochemistry  
CHEM 210-3 Analytical Chemistry I  
CHEM 250-1 Organic Chemistry Lab I  
CHEM 251-1 Organic Chemistry Lab II

\*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 Intermediary Metabolism  
CHEM 307-3 Proteins  
CHEM 308-3 Biochemistry Lab II  
CHEM 310-3 Analytical Chemistry II  
CHEM 311-3 Analytical Chemistry III  
CHEM 312-3 Organic Chemistry Lab III  
CHEM 315-3 Physical Chemistry Lab  
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

## Computer Science (BSc Program)

Liang Chen, Professor, and Program Chair  
Waqar Haque, Professor  
Alex Aravind, Associate Professor  
Charles Brown, Associate Professor  
Desanka Polajnar, Associate Professor  
Jernej Polajnar, Associate Professor  
Saif Zahir, Associate Professor  
David Casperson, Assistant Professor  
Allan Kranz, Senior Lab Instructor

Website: <http://www.unbc.ca/computerscience>

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.

# Undergraduate Programs: Computer Science

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## Major in Computer Science

A major in Computer Science requires at least 21 Computer Science courses and at least 67 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.

The following courses may not be used for credit towards a Computer Science major or joint major:

MATH 150-3 Finite Mathematics for Business and Economics  
MATH 342-3 Biostatistics

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

## 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 a "C-" or better, or have permission to enroll from the Program Chair.

### Lower Division Requirement

100 Level

CPSC 100-4 Computer Programming I  
CPSC 101-4 Computer Programming II  
CPSC 126-3 Introduction to Computer Systems  
CPSC 141-3 Discrete Computational Mathematics  
CPSC 142-3 Discrete Computational Mathematics II

MATH 100-3 Calculus I  
or MATH 105-3 Enriched Calculus

MATH 101-3 Calculus II

200 Level

CPSC 200-3 Algorithm Analysis and Development  
CPSC 230-4 Introduction to Logic Design  
CPSC 231-4 Computer Organization and Architecture  
CPSC 281-3 Data Structures I  
CPSC 290-3 Systems Analysis and Design  
MATH 220-3 Linear Algebra

### General Science Requirement

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

\*Note: In some special cases other science courses approved by the Chair of Computer Science may be used to satisfy this requirement.

## Upper Division Requirement

300 Level

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  
MATH 371-3 Probability and Statistics for Scientists and Engineers

\*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. MATH 335-3 (Numerical Analysis I) may be counted as a computer science course by computer science majors.

## Elective Requirement

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours.

## Joint Major in Chemistry/Computer Science

See Calendar entry under Chemistry.

## 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.

MATH 342-3 (Biostatistics) may not be used for credit towards any Mathematics or Computer Science major, minor, or joint major.

MATH 150-3 (Finite Mathematics for Business and Economics) may not be used for credit towards any Mathematics or Computer Science major or joint major.

## Program Requirements

### Literacy Requirement

One of:

- ENGL 170-3 Writing and Communication Skills
- ENGL 270-3 Expository Writing

### Lower Division Requirement

- CPSC 100-4 Computer Programming I
- CPSC 101-4 Computer Programming II
- CPSC 141-3 Discrete Computational Mathematics
- CPSC 142-3 Discrete Computational Mathematics II
- CPSC 200-3 Algorithm Analysis and Development
- CPSC 230-4 Introduction to Logic Design
- CPSC 231-4 Computer Organization and Architecture
- CPSC 281-3 Data Structures I
- MATH 100-3 Calculus I  
or MATH 105-3 Enriched Calculus
- MATH 101-3 Calculus II
- MATH 200-3 Calculus III
- MATH 201-3 Introduction to Complex Analysis
- MATH 220-3 Linear Algebra
- MATH 226-3 Advanced Linear Algebra
- MATH 224-3 Foundations of Modern Mathematics
- MATH 230-3 Linear Differential Equations and Boundary Value Problems

### General Science Requirement

Two of:

- BIOL 101-4 Introductory Biology I
- BIOL 102-4 Introductory Biology II
  
- CHEM 100-3 General Chemistry I  
and CHEM 120-1 General Chemistry Lab I
  
- CHEM 101-3 General Chemistry II  
and CHEM 121-1 General Chemistry Lab II
  
- PHYS 100-4 Introduction to Physics I  
or PHYS 110-4\* Introductory Physics I:
  
- PHYS 111-4\* Introductory Physics II: Waves and Electricity

\*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

- 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 335-3 Numerical Analysis I
- MATH 371-3 Probability and Statistics for Scientists and Engineers

\*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.

Note: CPSC 340-3 (Theory of Computation) is recommended.

### Elective Requirement

Elective credit hours as necessary to ensure completion of a minimum of 124 credit hours.

## 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.

MATH 342-3 (Biostatistics) may not be used for credit towards any Mathematics or Computer Science major, minor, or joint major.

MATH 150-3 (Finite Mathematics for Business and Economics) may not be used for credit towards any Mathematics or Computer Science major or joint major.

PHYS 307-3 (Selected Topics in Environmental Physics) may not be used as Physics credit toward any Physics major, minor, or joint major.

## Program Requirements

### Lower Division Requirement

- CPSC 100-4 Computer Programming I
- CPSC 101-4 Computer Programming II
- CPSC 141-3 Discrete Computational Mathematics
- CPSC 142-3 Discrete Computational Mathematics II
- CPSC 200-3 Algorithm Analysis and Development
- CPSC 231-4 Computer Organization and Architecture
- CPSC 281-3 Data Structures I

- MATH 100-3 Calculus I  
or MATH 105-3 Enriched Calculus

- MATH 101-3 Calculus II
- MATH 200-3 Calculus III
- MATH 220-3 Linear Algebra
- MATH 230-3 Linear Differential Equations and Boundary Value Problems

# Undergraduate Programs: Computer Science, Economics

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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 333-3	Partial Differential Equations or MATH 334-3 Ordinary Differential Equations
MATH 335-3	Numerical Analysis I
MATH 340-3	Introduction to Probability
PHYS 300-3	Classical Mechanics
PHYS 302-3	Quantum Mechanics I
PHYS 305-4	Electronics [which must be taken before CPSC 231-4 (Computer Organization and Architecture)]
PHYS 390-3	Advanced Physics Laboratory

\*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

Elective credit hours as necessary to ensure completion of a minimum of 127 credit hours.

## Economics (BA and BSc Programs)

Fiona MacPhail, Associate Professor, and Program Chair  
Paul Bowles, Professor  
Baotai Wang, Associate Professor  
Lawrence Arbenser, Assistant Professor  
Ajit Dayanandan, Assistant Professor  
Karima Fredj, Assistant Professor  
Jalil Safaei Boroojny, Assistant Professor  
Bryan Bogdanski, Adjunct Professor

Website: <http://www.unbc.ca/economics>

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.

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

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

## Joint Major in Economics/Political Science

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

## Program Requirements

### Lower Division Requirement

ECON 100-3	Microeconomics
ECON 101-3	Macroeconomics
ECON 202-3	History of Economic Thought
ECON 203-3	Canadian Economic History
ECON 205-3	Statistics for Social and Management Science
POLS 100-3	Contemporary Political Issues
POLS 200-3	Canadian Government and Politics
POLS 202-3	Comparative Government and Politics
POLS 270-3	Political Philosophy: Plato to Locke
POLS 290-3	Research and Writing for Political Science

### Upper Division Requirement

ECON 310-3	Intermediate Microeconomic Theory
ECON 311-3	Intermediate Macroeconomic Theory
POLS 303-3	Democracy and Dictatorship
POLS 320-3	Canadian Politics and Policy
POLS 370-3	Political Philosophy: Locke to Marx

Nine credit hours in Political Science at the 300 or 400 level.  
Eighteen credit hours in Economics at the 300 or 400 level.

## Elective Requirement

Elective credit hours as necessary 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.

## BSc (Joint Major in Economics/Mathematics)

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Economics and Mathematics is 121 credit hours.

MATH 342-3 (Biostatistics) may not be used for credit towards any Mathematics major, minor or joint major.

MATH 150-3 (Finite Mathematics for Business and Economics) may not be used for credit towards any Mathematics major or joint major.

## Program Requirements

### Literacy Requirement

One of:

ENGL 170-3	Writing and Communication Skills
ENGL 270-3	Expository Writing

### Economic Requirements

ECON 100-3	Microeconomics
ECON 101-3	Macroeconomics
ECON 202-3	History of Economic Thought
ECON 203-3	Canadian Economic History
ECON 205-3	Statistics for Social and Management Science
ECON 310-3	Intermediate Microeconomic Theory
ECON 311-3	Intermediate Macroeconomic Theory
ECON 312-3	Introduction to Econometrics
ECON 320-3	Introduction to Mathematical Economics

One of the following three courses:

ECON 451-3	Advanced Microeconomic Theory
ECON 452-3	Advanced Macroeconomic Theory
ECON 453-3	Advanced Econometrics

Twelve additional credit hours of 300 or 400 level Economics.

### Mathematics Requirements

MATH 100-3	Calculus I
	or MATH 105-3 Enriched Calculus
MATH 101-3	Calculus II
MATH 200-3	Calculus III
MATH 201-3	Introduction to Complex Analysis
MATH 220-3	Linear Algebra

# Undergraduate Programs: Economics, Education

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MATH 221-3 Operations Research  
MATH 224-3 Foundations of Modern Mathematics  
MATH 230-3 Linear Differential Equations and Boundary Value Problems  
MATH 320-3 Survey of Algebra  
or MATH 302-3 Theory of Metric Spaces  
MATH 340-3 Introduction to Probability

Six additional credit hours of 300 or 400 level Mathematics (MATH 341-3 is strongly recommended).

Six additional credit hours of 400 level Mathematics.

## Program Requirements

CPSC 100-4 Computer Programming I

## Elective Requirements

Elective credit hours as necessary to ensure completion of a minimum of 121 credit hours.

## Education (BEd Program)

Bryan Hartman, Professor  
Judith Lapadat, Professor, and Regional Chair, Northwest Region  
Paul Madak, Professor  
Willow Brown, Assistant Professor, and MEd Leadership (MDL) Coordinator  
Colin Chasteauneuf, Assistant Professor, and Co-Chair Undergraduate Program  
Yvon Cloutier, Assistant Professor  
Margo Greenwood, Assistant Professor, and Academic Leader, National Collaborating Centre for Aboriginal Health  
Corinne Koehn, Assistant Professor, and MEd Counselling Coordinator  
Andrew Kitchenham, Associate Professor, and Post Baccalaureate Coordinator  
Verna Lynn McDonald, Assistant Professor, and BEd Coordinator – Northwest Region  
Peter MacMillan, Associate Professor, and Co-Chair Undergraduate Program  
Greg Nixon, Assistant Professor  
Dennis Procter, Assistant Professor  
Lantana Usman, Assistant Professor  
Rick Erlendson, Adjunct Professor  
Bruce Galenza, Adjunct Professor  
Connie Korpan, Adjunct Professor  
Alexander Lautensach, Assistant Professor  
Scott McAlpine, Adjunct Professor  
Campbell Ross, Adjunct Professor  
Alan Segal, Adjunct Professor  
Devinder Singh Sekhon, Adjunct Professor  
Trudy Mothus, Lecturer  
Linda O'Neill, Lecturer  
Montgomery (Monty) Palmantier, Lecturer, and Aboriginal Education Coordinator  
Marian Laval, Senior Lab Instructor (ATEBP)  
Practicum Placement Coordinator: Ricci Dalton

Website: <http://www.unbc.ca/education>

UNBC's BEd program is offered at the Prince George campus and at the Terrace campus. At the Prince George campus, the BEd program is a two-year after-degree program that offers Elementary (grade K-7), and Secondary (grades 8-12) Streams. It is designed for university students who have already completed a first degree and who wish to continue their education in order to become teachers. The BEd degree consists of 73 credit hours in Education of which 20 credit hours is classroom experience.

At the Terrace campus, the Elementary Stream is offered. There are three routes of entry into the BEd program at the Terrace campus. Students may enter with an acceptable bachelor's degree and complete the two-year after-degree program as described above. Alternatively, students may enter the BEd program after having completed 90 credits of coursework which includes 30 senior level credits in a teachable field. Upon completion of the two-year BEd program, students will graduate with a five-year (163 credit) BEd degree. The third route of entry is with a UNBC Education Diploma in a First Nations Language and Culture (92 credits). Students pursuing this route may be admitted to the two-year BEd degree completion program, which includes an additional 12 senior level credits in a teachable field along with the remainder of the Education coursework needed to complete a five-year (154 credit) BEd degree.

Each model and stream of UNBC's BEd program provides students with the course work and classroom experience to prepare them to be certified teachers. Upon successful completion of the program, graduates are recommended to the British Columbia College of Teachers (BCCT) for professional certification. Certification by the BCCT is required for employment in the British Columbia public school system. All Education courses within the Elementary and Secondary Streams are required; there are no elective courses offered.

The programs begin in September of each year and the application deadline is March 15. Students needing advice about the application process or about any of the Education courses are encouraged to contact either the Office of the Registrar or the School Experience Office in the Education Program. Students applying to the BEd at the Terrace campus also may contact the Northwest Regional campus.

## Elementary (Grade K-7)

The Elementary Stream prepares teacher candidates to work with the unique learning needs of children who are beginning their school years. This model reflects current thinking about optimizing the match between educational theory and children's levels of cognitive and social development. The Elementary Stream is designed to educate teachers to combine pedagogical excellence across disciplinary areas with a learner-centered approach to practice. Philosophically, the program is designed around constructivist principles, and it emphasizes approaches to practice such as inquiry-based learning, strategies for instruction, integration of language across the curriculum, inclusion of diverse learners and perspectives, the development of caring and respectful communities of learners, and reflective practice. Successful applicants to the Elementary Stream will be assigned to a cohort group of students and will take their Education courses with that cohort group over the two years.



## Admission Requirements

Applicants to the Elementary Stream at the Prince George campus must have completed a four-year bachelor's degree (120 credits) or the equivalent with a minimum of ninety (90) credits in Arts, Science, or in other teachable fields relevant to the BC School system. The remaining credits may come from any discipline. Applicants to the Elementary Stream at the Terrace campus must have completed one of: 1) a four-year Bachelor's degree (120 credits) or the equivalent as described above; 2) a minimum of ninety (90) credits in Arts, Science, or in other teachable fields relevant to the BC School system, and including 30 senior level credits in a teachable field; or 3) a UNBC Education Diploma in a First Nations Language and Culture (92 credits). Transfer credit for coursework relating to the ninety (90) credits that has been completed prior to UNBC registration shall not be subject to the ten-year provision in the university calendar regarding *Time Limit for Transfer Credit* but shall be determined by the program based upon the British Columbia College of Teachers' acceptable course work and degree policy.

In addition to the entry qualifications described above, the following requirements must be met:

1. Six (6) credits of acceptable English literature and composition at any level (three (3) credits of literature and three (3) credits of composition or six (6) credits of acceptable English literature). Courses in linguistics, language study, grammar, technical or business writing, communication, or English as a second language are not acceptable to meet the English requirement.
2. Three (3) credits in mathematics (not including Statistics).
3. Three (3) credits in a laboratory science. Laboratory science credits are normally selected from Biology, Chemistry, Environmental Science, Geography, Health and Human Sciences, or Physics.
4. Six (6) credits of approved Canadian Studies, at any level, applicable to teaching in the British Columbia school curriculum. Credits will normally be selected from Anthropology, First Nations Studies, Geography, History, Northern Studies, or Political Science courses that contain significant Canadian content (upon review, credits from other disciplines may be recognized as meeting the Canadian content requirement).
5. Competence in basic computer applications. In addition to the requirements specified above, applicants must also have the following:
6. Minimum grade point average of "C+" on the most recent 60 credit hours of university credits completed.
7. Successful completion with a "C+" average in the 6 credits/semester hours or equivalent in the undergraduate English composition and literature courses.
8. Submission of the completed application forms that include the Experience with Children and Youth Form, three Confidential Reference Forms, and the Personal Statement Form.

## Program Requirements

### Elementary (K-7)

Entry route via four-year Bachelor's degree (120 credits) or the equivalent with a minimum of 90-credits in a teachable field:

#### Year 1: First Semester

EDUC 313-1	Interpersonal Communication
EDUC 333-2	Learning Development & Motivation
EDUC 340-2	Curriculum Development Models
EDUC 346-2	Introduction to Aboriginal Education
EDUC 356-2	Language & Literacy: Development (EY)
EDUC 376-2	Numeracy: Math Concepts (EY)
EDUC 380-3	Foundations of Education
EDUC 395-1	Professional Issues: Legal & Ethical
EDUC 390-3	Classroom Practice & Seminar I

#### Year 1: Second Semester

EDUC 341-2	Principles of Instruction
EDUC 342-2	Social Dynamics of Classrooms
EDUC 351-2	Curriculum & Instruction: Second Language
EDUC 357-3	Language & Literacy: Reading & Writing (EY)
EDUC 366-2	Curriculum & Instruction: Social Studies (EY)
EDUC 377-2	Numeracy: Instructional Strategies (EY)
EDUC 387-2	Curriculum & Instruction: Science (EY)
EDUC 391-3	Classroom Practice & Seminar II

#### Year 2: First Semester

EDUC 406-3	Curriculum & Instruction: Fine Arts (EY)
EDUC 421-3	Classroom Assessment Practices
EDUC 431-3	Educational Technology
EDUC 435-2	Learning & Diversity: Inclusive Classrooms
EDUC 446-2	Aboriginal Education: Epistemology
EDUC 456-2	Language & Literacy Across the Curriculum (EY)
EDUC 490-4	Classroom Practice & Seminar III

#### Year 2: Second Semester

EDUC 413-1	Counselling Skills (EY)
EDUC 436-2	Learning & Diversity: Learning Disabilities
EDUC 457-2	Language & Literacy: Oral & Written Genres (EY)
EDUC 489-2	Curriculum & Instruction: Physical Education (EY)
EDUC 495-1	Professional Issues: Portfolios
EDUC 491-10	Classroom Practice & Seminar IV

### Entry route via an Education Diploma in a First Nations Language and Culture:

#### Year 1: First Semester

EDUC 313-1	Interpersonal Communication
EDUC 340-2	Curriculum Development Models
EDUC 376-2	Numeracy: Math Concepts (EY)
EDUC 395-1	Professional Issues: Legal & Ethical
EDUC 396-2	Reflective Seminar
ELECTIVE 1-3	Senior academic course in a teachable area
ELECTIVE 2-3	Senior academic course in a teachable area

# Undergraduate Programs: Education

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## Year 1: Second Semester

- EDUC 357-3 Language & Literacy: Reading & Writing (EY)
- EDUC 366-2 Curriculum & Instruction: Social Studies (EY)
- EDUC 377-2 Numeracy: Instructional Strategies (EY)
- EDUC 387-2 Curriculum & Instruction: Science (EY)
- ELECTIVE 3-3 Senior academic course in a teachable area
- ELECTIVE 4-3 Senior academic course in a teachable area

## Year 2: First Semester

- EDUC 406-3 Curriculum & Instruction: Fine Arts (EY)
- EDUC 421-3 Classroom Assessment Practices
- EDUC 431-3 Educational Technology
- EDUC 456-2 Language & Literacy Across the Curriculum (EY)
- EDUC 490-4 Classroom Practice & Seminar III

## Year 2: Second Semester

- EDUC 413-1 Counselling Skills (EY)
- EDUC 436-2 Learning & Diversity: Learning Disabilities
- EDUC 457-2 Language & Literacy: Oral & Written Genres (EY)
- EDUC 489-2 Curriculum & Instruction: Physical Education (EY)
- EDUC 495-1 Professional Issues: Portfolios
- EDUC 491-10 Classroom Practice & Seminar IV

Note: Students entering via this route may opt to take some or all of their 12 senior credits prior to entering the Elementary BEd Degree Completion Program.

## Secondary (Grades 8-12)

### Year 1: First Semester

- EDUC 313-1 Interpersonal Communication
- EDUC 333-2 Learning Development and Motivation
- EDUC 340-2 Curriculum Development Models
- EDUC 346-2 Introduction to Aboriginal Education
- EDUC 380-3 Foundations of Education
- EDUC 395-1 Professional Issues: Legal & Ethical
- EDUC 360-4 Curriculum & Instruction: Introduction (SY)
- EDUC 390-3 Classroom Practice & Seminar I

### Year 1: Second Semester

- EDUC 342-2 Social Dynamics of Classrooms
- EDUC 341-2 Principles of Instruction
- EDUC 345-4 Language & Literacy Across the Curriculum
- EDUC 370-3 Numeracy Across the Curriculum
- EDUC 361-4 Curriculum & Instruction II: Humanities & Social Sciences
  - or EDUC 372-4 Curriculum & Instruction II: Math, Computer & Sciences
  - or EDUC 315-4 Curriculum & Instruction II: Business & Career Education
- EDUC 391-3 Classroom Practice & Seminar II

## Year 2: First Semester

- EDUC 421-3 Classroom Assessment Practices
- EDUC 431-3 Educational Technology
- EDUC 435-2 Language & Diversity: Inclusive Classrooms
- EDUC 446-2 Aboriginal Education: Epistemology II
- EDUC 460-5 Curriculum & Instruction III: Humanities & Social Sciences
  - or EDUC 471-5 Curriculum & Instruction III: Math, Computer & Sciences
  - or EDUC 414-5 Curriculum & Instruction III: Business & Career Education
- EDUC 490-4 Classroom Practice & Seminar III

## Year 2: Second Semester

- EDUC 434-3 Counselling Skills
- EDUC 436-2 Learning & Diversity: Learning Disabilities
- EDUC 495-1 Professional Issues: Legal & Ethical
- EDUC 461-3 Curriculum & Instruction IV: Humanities & Social Sciences
  - or EDUC 472-3 Curriculum & Instruction IV: Math, Computer & Sciences
  - or EDUC 415-3 Curriculum & Instruction IV: Business & Career Education
- EDUC 491-10 Classroom Practice & Seminar IV

## Secondary (Grades 8-12)

The Secondary program is a two-year after-degree program that prepares individuals to teach in grades 8 through 12 in specialty areas. This model reflects current thinking about optimizing the match between educational theory and children's levels of cognitive and social development. The Secondary Stream is designed to educate teachers to combine pedagogical excellence across disciplinary areas with a learner-centered approach to practice. Philosophically, the program is designed around constructivist principles, and it emphasizes approaches to practice such as inquiry-based learning, strategies for instruction, integration of language across the curriculum, inclusion of diverse learners and perspectives, the development of caring and respectful communities of learners, and reflective practice. Successful applicants to the Secondary Stream will be assigned to a cohort group of approximately 35 students and will take all of their courses with that cohort group.

## Admission Requirements

Applicants to the Secondary Stream must have completed a four-year Bachelor of Arts, Bachelor of Science, or Bachelor of Commerce degree (120 credits) or the equivalent with a minimum of ninety (90) credits in Arts, Science, or Business Administration or in other teachable fields relevant to teaching in the BC School system. The remaining credits may come from any discipline.

In addition to a four-year bachelor's degree, applicants must include the following within their program:

1. Six (6) credits of acceptable English literature and composition at any level. Courses in linguistics, language study, grammar, technical or business writing, communication, or English as a second language are not acceptable to meet the English requirement.
2. Competence in basic computer applications.
3. One of the following:
  - a. One teachable major and one teachable minor, or
  - b. Two (2) teachable minors, or
  - c. One teachable major

In addition to the requirements specified above, applicants must also have the following:
4. Minimum grade point average of "C+" on the most recent 60 credit hours of university credits completed.
5. Successful completion with a "C+" average in the 6 credits/semester hours or equivalent in the undergraduate English composition and literature courses.
6. Submission of the completed application forms that include the Experience with Children and Youth Form, three Confidential Reference Forms, and the Personal Statement Form.

## Secondary Teachable Major and Minor Requirements

The following is a list of teachable majors and minors that have been approved by the British Columbia College of Teachers, are widely taught in British Columbia secondary schools, and that can be completed at the University of Northern British Columbia (graduates of equivalent programs at other recognized universities are also eligible for consideration to the program). In order for applicants to be eligible for the Secondary Stream Bachelor of Education program, they must meet the requirements for one teachable major, a teachable major and minor, or two teachable minors from the following list:

Subject area	Major	Minor
Biology	X	X
Business Education	X	X
Chemistry	X	X
Computer Science	X	X
English	X	X
First Nations Studies		X
General Science	X	X
Geography	X	X
History	X	X
Mathematics	X	X
Physics	X	X
Social Studies	X	X

Applicants to the Bachelor of Education program should recognize that the credit levels for the teachable majors and minors meet the British Columbia College of Teachers accreditation requirements, and may not be equivalent to the formal requirements for a UNBC major or minor. Applicants should refer to the appropriate section of the UNBC Calendar in order to ensure that they are meeting all of the course work required to successfully complete UNBC degree requirements.

A teachable minor normally consists of eighteen (18) credit hours of upper division courses (numbered 300 or 400 and taken in the third and fourth year of study), in addition to required lower division courses.

A teachable major normally consists of thirty (30) credit hours of upper division courses (numbered 300 or 400 and taken in the third and fourth year of study), in addition to required lower division courses.

## Biology Major and Minor

Bachelor of Education applicants to the Secondary Stream planning to meet the Biology teachable minor requirement must have completed a minimum of six (6) credit hours of introductory (100 level) course work in each of biology, chemistry (at least one course with a lab component), mathematics (at least one course, but preferably two courses, in calculus), and physics (at least one course with a lab component). Applicants must also complete an additional six (6) to twelve (12) credit hours of study in biology at the lower division, and eighteen (18) credits of upper division course work in biology. The course work must demonstrate both lecture and laboratory studies.

Applicants planning to meet the Biology teachable major requirement must complete an additional twelve (12) credit hours of upper division course work in biology.

## Business Education Major and Minor

Bachelor of Education applicants to the Secondary Stream planning to meet the Business Education teachable minor requirement must complete a minimum of eighteen (18) upper division credit hours of specialized courses in accounting, marketing, commercial law, and management information systems in addition to introductory (100 level) courses in computer science, economics, and mathematics.

Applicants planning to meet the Business Education teachable major requirement must complete an additional twelve (12) credit hours of upper division course work in accounting, finance, marketing, and management information systems.

## Chemistry Major and Minor

Bachelor of Education applicants to the Secondary Stream planning to meet the Chemistry teachable minor requirement must have completed a minimum of six (6) credit hours of introductory (100 level) course work in each of biology, chemistry (at least one course with a lab component), mathematics (at least one course, but preferably two courses, in calculus), and physics (at least one course with a lab component). Applicants must also complete an additional six (6) to twelve (12) credit hours of study in chemistry at the lower division, and eighteen (18) credits of upper division course work in chemistry. The course work must demonstrate both lecture and laboratory studies.

Applicants planning to meet the Chemistry teachable major requirement must complete an additional twelve (12) credit hours of upper division course work in chemistry.

# Undergraduate Programs: Education

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## Computer Science Major and Minor

Bachelor of Education applicants to the Secondary Stream planning to meet the Computer Science teachable minor requirement must complete a basic lower division course load in computer programming, computer structures, and mathematics in addition to eighteen (18) credits of upper division Computer Science course work covering advanced programming, systems design, and programming languages.

Applicants planning to meet the Computer Science teachable major requirement must complete an additional twelve (12) credit hours of study in upper division Computer Science course work.

## English Major and Minor

Bachelor of Education applicants to the Secondary Stream planning to meet the English teachable minor requirement must complete a basic lower division course load that focuses on English literature and composition in addition to twenty-four (24) credit hours of upper division English courses including six (6) credits from each of the following: English literature, pre-twentieth century literature, and contemporary literature. Applicants are also strongly encouraged to complete courses both in Canadian literature and Shakespeare.

Applicants planning to meet the English teachable major requirement must complete an additional six (6) credit hours of upper division course work in English.

## First Nations Minor

Bachelor of Education applicants to the Secondary Stream planning to meet the First Nations teachable minor requirement must complete a basic lower division course load that focuses on general First Nations studies, First Nations language, and First Nations culture courses in addition to eighteen (18) credit hours of upper division First Nations Studies or related approved courses (related course work may come from Anthropology or History).

## General Science Majors and Minors

Teachable areas that can be included within the General Sciences Major and Minor include Biology, Chemistry, Environmental Sciences, and Physics.

Bachelor of Education applicants to the Secondary Stream planning to meet the General Sciences teachable minor requirement must complete six (6) credit hours of study in introductory (100 level) course work in each of biology, chemistry (at least one course with a lab component), mathematics (at least one course, but preferably two courses, in calculus), and physics (at least one course with a lab component). Applicants must also complete a minimum of six (6) credit hours of upper division study in three of the four teachable areas: Biology, Chemistry, Environmental Sciences, and Physics.

Applicants planning to meet the teachable major requirement in General Sciences must complete an additional twelve (12) upper division credit hours or course work from the four teachable areas: Biology, Chemistry, Environmental Sciences, and Physics.

## Geography Major and Minor

Applicants to the Geography Major or Minor programs must include courses from both cultural and physical geography within their program, as well as course work in regional and environmental studies.

Bachelor of Education applicants to the Secondary Stream planning to meet the Geography teachable minor requirement must complete a minimum of six (6) credit hours of introductory (100 level) or survey courses in each of geography, history, and a social science.

Applicants must also complete a minimum of an additional six (6) credit hours lower division geography course work and eighteen (18) credit hours of upper division geography. A minimum of six (6) credits must have a significant Canadian content.

Applicants planning to meet the Geography teachable major requirement must complete an additional twelve (12) credit hours of upper division course work in geography.

## History Major and Minor

Applicants to the History Major or Minor programs must include both Canadian and European history course work within their program, as well as the history of any region other than Canada or Europe.

Bachelor of Education applicants to the Secondary Stream planning to meet the History teachable minor requirement must complete a minimum of six (6) credit hours of introductory (100 level) or survey courses in each of geography, history, and a social science.

Applicants must also complete a minimum of an additional six (6) credit hours of lower division history course work and eighteen (18) credit hours of upper division history. A minimum of six (6) credits must have a significant Canadian content.

Applicants planning to meet the History teachable major requirement must complete an additional twelve (12) credit hours of upper division work in history.

## Mathematics Major and Minor

Bachelor of Education applicants to the Secondary Stream planning to meet the Mathematics teachable minor requirement must complete a minimum of thirty (30) credit hours of study of which at least eighteen (18) credit hours must be at the upper division level. The upper division credits must include at least one course in three of the following areas: algebra, calculus, probability and statistics, geometry, and number theory.

Applicants planning to meet the Mathematics teachable major requirement must complete an additional twelve (12) credit hours of upper division Mathematics course work in the above listed disciplines.

### Physics Major and Minor

Bachelor of Education applicants to the Secondary Stream planning to meet the Physics teachable minor requirement must have completed a minimum of six (6) credit hours of introductory (100 level) course work in each of biology, chemistry (at least one course with a lab component), mathematics (at least one course, but preferably two courses, in calculus), and physics (at least one course with a lab component). Applicants must also complete an additional six (6) to twelve (12) credit hours of study in physics at the lower division, and 18 credits of upper division course work in physics. The course work must demonstrate both lecture and laboratory studies.

Applicants planning to meet the Physics teachable major requirement must complete an additional twelve (12) credit hours of upper division course work in physics.

### Social Studies Majors and Minors

Teachable areas that can be included within the Social Studies Major and Minor include Geography, History and acceptable Social Sciences (Anthropology, Economics, Environmental Studies, First Nations Studies, International Studies, Northern Studies, Political Science, Sociology, and Women's Studies).

Bachelor of Education applicants to the Secondary Stream planning to meet the Social Studies teachable minor requirement must have completed a minimum of twelve (12) upper division credit hours in a social science teaching area (including: Anthropology, Economics, Environmental Studies, First Nations Studies, International Studies, Northern Studies, Political Science, Sociology, and Women's Studies) acceptable in British Columbia secondary schools.

In addition, applicants must meet the minimum requirements for Geography (nine (9) credit hours of which three (3) credit hours must be at the upper division level, three (3) credit hours must be Canadian Geography, and three (3) credit hours can be at any level), and History (eighteen (18) credit hours of which six (6) credit hours must be at the upper division level, three (3) credit hours must be in Canadian history, three (3) credit hours must be in European history, three (3) credit hours must be in a region other than Canada or Europe, and three (3) credit hours can be at any level).

Applicants planning to meet the Social Studies teachable major requirements must complete an additional fifteen (15) credit hours at the upper division level course work (three (3) credit hours must be in geography, three (3) credit hours must be in history, and six (6) credit hours must be in the social sciences, and three (3) credit hours can be in history, geography, or the social sciences).

### Access Initiative

The Education Program at UNBC has initiated a program designed to give access to individuals who are members of groups in our society, which have historically been under-represented, in the teaching profession in British Columbia. In order to achieve this objective, we encourage applicants who have confronted identifiable barriers to post-secondary education to apply under the Access Initiative. All

applicants for UNBC's teacher education program must submit a Personal Statement. Applicants who wish to apply under the Access Initiative may identify themselves in their Personal Statement Form to be considered under the Access Initiative.

### Criminal Records Search

In addition to the admission application requirements outlined above, applications are required to undergo a criminal record search and provide evidence of this prior to being considered for admission. Refer to Undergraduate Regulations and Policies (Academic Regulation #19) in this Calendar.

### Admission Decisions

Applications for admission can be obtained from either the Office of the Registrar, or from the School Experience Office. For further information concerning the application process, please contact either the School Experience Office or the Office of the Registrar.

Admissions rankings are determined by a combination of GPA, experience with children, a personal statement, and letters of reference.

### Notes on Certification

Applicants who are otherwise eligible for British Columbia College of Teachers Certification, but who are not Canadian citizens, are required to provide evidence of landed immigrant status or hold a valid work authorization to teach in Canada before they may be issued a British Columbia teaching credential.

## Education Diploma in a First Nations Language and Culture (Elementary Years)

The Education Diploma in a First Nations Language and Culture is a 92 credit hour teacher education program that prepares individuals to teach an approved First Nations language and culture at the Elementary Years level.

This program of study has been developed in partnership with the Language Authority for each First Nation. This model reflects the current thinking about building on the rich linguistic and cultural heritage of students to optimize the match between educational theory, children's level of cognitive and social development, and the particular First Nations language and culture. Successful completion of this program of study will lead to a recommendation to the British Columbia College of Teachers that a Developmental Standard Term Certificate in the specific First Nations Language and Culture be granted. The Education Diploma in a First Nations Language and Culture is designed to educate teachers to combine pedagogical excellence across disciplinary areas with a learner-centered approach to practice. Philosophically, the program is designed around constructivist principles, emphasizes approaches to practice such as inquiry-based learning, strategies for instruction, integration of

# Undergraduate Programs: Education

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language and culture across the curriculum, inclusion of diverse learners and perspectives, and the development of caring and respectful practice.

Programs of study leading to recommendation for this teaching credential are available for Gitksan Language and Culture and for Nisga'a Language and Culture. The Education Diploma in a First Nations Language and Culture (Gitksan) has been developed in partnership with the Siwiixo'osxwim Wilnatahl Gitksanimx Society. The Education Diploma in a First Nations Language and Culture (Nisga'a) has been developed in partnership with the Nisga'a Language Authority of Wilp Wilxo'oskwhl Nisga'a (WWN), and is offered at the WWN campus.

## Admission Requirements

Students selected for this program of study will be admitted according to the "Undergraduate Admissions" categories, criteria, and processes established by UNBC and specified in the early sections of this Undergraduate Calendar. In addition to the specified entrance requirements, applicants are encouraged to identify their fluency in the specific language (Gitksanimx or Nisga'a language) and their knowledge of Gitksan culture and history or Nisga'a culture and history. Advanced placement in language courses may be considered for speakers who are able to demonstrate their fluency in the language.

There are two points of entry to this program of study: following the completion of the Diploma in First Nations Language, or concurrently while completing the required First Nations Studies and general academic coursework. Students must be admitted to this program of study prior to beginning their professional education courses. The Certificate in First Nations Language, and the Diploma in First Nations Language are described in the First Nations Studies section of the calendar.

## Criminal Records Search

In addition to the admission application requirements outlined for admission to UNBC, applicants are required to undergo a criminal record search and provide evidence of this prior to being considered for admission to the Education Diploma in a First Nations Language and Culture (Elementary Years). Refer to Undergraduate Regulations and Policies (Academic Regulation #19) in this Calendar.

## Program Requirements

### First Nations Studies Credits:

The required First Nations Studies credits can be met by completing a Diploma in First Nations Language. Students will need to include the following First Nations Studies language, linguistics and culture courses in their program of study:

### Language (33 credits):

A First Nations Language: Levels 1-4 in Gitksanimx or Nisga'a (FNST 131-3, FNST 132-3, FNST 231-3, FNST 232-3; or Gitksanimx FNST 143-3, FNST 144-3, FNST 243-3, FNST 244-3; or Nisga'a: FNST 139-3, FNST 140-3, FNST 239-3, FNST 240-3)

FNST 223-3, FNST 321-3, FNST 322-3, FNST 324-3, FNST 325-3, FNST 421-3, FNST 422-3 (Gitksanimx or Nisga'a)

### Linguistics (9 credits):

FNST 220-3, FNST 320-3, FNST 420-3

### Culture Studies (9 credits):

FNST 161-3 (or Gitksan: FNST 173-3 or Nisga'a: FNST 169-3) FNST 162-3 (or Gitksan: FNST 174-3 or Nisga'a: FNST 170-3) FNST 216-3

BCCT Required General Academic Coursework: (18 credits. Some of these credits may be completed as part of the Diploma in First Nations Language):

3 credits English Composition-Suggested: ENGL 170-3 or equivalent  
3 credits English Literature-Suggested: ENGL 103-3, ENGL 210-3, ENGL 260-3 or equivalent  
3 credits Mathematics-Suggested: MATH 152-3 or equivalent  
3 credits Lab Sciences-Suggested: BIOL 101-4 or equivalent  
6 credits of Canadian Studies (3 credits History and 3 credits Geography recommended)-Suggested: FNST 100-3, FNST 250-3, GEOG 203-3, HIST 210-3, HIST 302-3 or equivalent

## Professional Education Coursework:

EDUC 380-3 Foundations of Education  
EDUC 333-2 Learning, Development and Motivation  
EDUC 341-2 Principles of Instruction  
EDUC 342-2 Social Dynamics of Classrooms  
EDUC 351-2 Curriculum and Instruction: Second Language  
EDUC 356-2 Language and Literacy Development  
EDUC 446-2 Aboriginal Education: Epistemology  
EDUC 435-2 Learning and Diversity: Inclusive Classrooms  
EDUC 390-3 Classroom Practice and Seminar 1  
EDUC 391-3 Classroom Practice and Seminar 2

## Diploma and BEd Academic Regulations

For the purpose of determining eligibility for recommending a teacher candidate for certification by the BCCT, the minimum requirements include successful completion of the education program with a "C+" on each education course taken while enrolled in the Program. Courses for which a grade of lower than a "C+" was received must be repeated.

The Education Program reserves the right at any time to require any teacher candidate to withdraw from UNBC if it believes on consideration of academic, professional fitness or professional conduct that the student is unsuitable for the teaching profession. Unsatisfactory performance in any aspect of the program may be considered reason to require a teacher candidate to withdraw from the program.

Regular attendance is expected of all teacher candidates in all courses. An instructor can initiate procedures to debar a teacher candidate from attending classes and from final examinations where unexcused absences exceed three hours of scheduled classes in one term.

If re-admission is approved following required or voluntary withdrawal from a practicum and/or program, the teacher candidate will normally be re-admitted on probationary status.

Appeals should first be submitted to the BEd Admissions and Standards Committee. If a teacher candidate is not satisfied with the outcome of that process, he/she may then file an appeal with UNBC's Senate Committee on Academic Appeals (see "Appeals Process" Academic Regulation #49 under Regulations and Policies). Teacher candidates are not allowed to use 600, or higher, level courses from the Education Program, or any other program to meet degree requirements.

Students who plan to undertake work at other institutions are required to seek prior approval from the Office of the Registrar and the Chair of Education if they wish such courses to be credited toward a BEd degree at UNBC.

### Diploma and BEd Teaching Practicum Regulations

All arrangements for school placements are made through the School Experience Office.

Teacher candidates taking the Classroom Practice & Seminar courses must be prepared to travel to any regional school district. In order to do this, teacher candidates should budget for transportation. Practica may be arranged in other selected districts. Extra expenses will be involved and teacher candidates should budget accordingly.

Teacher candidates must successfully complete all first year courses before they will be allowed to proceed to second year courses and commence their second year field placements. These requirements include the completion of core assignments designed to link theory and practice.

UNBC's Education Program reserves the right to approve or disapprove any school placement for teacher candidates, to place teacher candidates in schools, and to change any placement assigned to a teacher candidate. The teacher candidate must be informed in writing of the reasons for any required change in placement. UNBC bears no responsibility for the costs associated with a change in placement.

The Education Program is responsible for seeking a sufficient number of school placements to serve the needs of all enrolled teacher candidates. A teacher candidate may be required to withdraw from a

Classroom Practice & Seminar course if none of the available schools will accept that particular teacher candidate.

UNBC's Education Program reserves the right to provide information to the principal of a school for a practicum placement for a particular teacher candidate where it is deemed necessary for the principal to have the information in order to carry out his/her duties as a principal. The School Experience Office must inform the principal if concerns have been raised within the Education Program or in a previous practicum placement about a more than usual potential for a negative impact on the quality of the learning and/or working in the classroom and/or school as a result of the presence of the candidate teacher. The Practicum Placement Co-ordinator and/or the Stream Co-ordinator must inform the teacher candidate in writing of the reasons for the concerns giving rise to such notification to the principal.

The dates of the practica will be made known to the teacher candidates at the beginning of each term. Placement locations will be made available as soon as possible after classes have begun.

The expectations of teacher candidates during the practica will be published and distributed to all teacher candidates, Faculty Advisors, and Co-operating Teachers at the start of each year in the course outlines for the Classroom Practice & Seminar courses. Regular attendance during the practica is required. Teacher candidates are required to notify the school whenever classroom experience appointments cannot be kept and also inform their Faculty Advisor. Teacher candidates will be barred from the Classroom Practice & Seminar course if they have more than three unexcused absences.

All teacher candidates in the program placed in schools for classroom experience are subject to the provisions of the Schools Act, School Regulations, the British Columbia Teachers' Federation (BCTF) Code of Ethics, and any regulation and/or code of behaviour applicable to teachers and staff in the school. Any teacher candidate may be required to withdraw from a classroom experience for violation of any part of the School Act, School Regulations, the BCTF Code of Ethics, or upon written notice from the school principal or the superintendent in the district where the teacher candidate is placed.

Faculty Advisors or Co-operation Teachers who refuse teacher candidates' continued participation in a practicum experience for misconduct or repeated absence must immediately discuss the matter with the Practicum Placement Co-ordinator, who shall then either inform the teacher candidate of the conditions under which they may resume participation in the practica or inform the teacher candidate that the Chair of Education or Chair's designate is being advised that the teacher candidate's performance in the classroom experience is considered unsatisfactory by those responsible for supervision of the practicum experience.

### Denial and Withdrawal

Teacher candidates will be denied the practica placement if their preparatory course work is considered to be unsatisfactory (e.g. below "C+" work, or incomplete work) by the Stream Co-ordinator.

# Undergraduate Programs: Education, Post-Baccalaureate Diploma

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Teacher candidates may be required to withdraw from a practicum experience if their performance in their school placement is considered to be unsatisfactory by the Stream Co-ordinator (based on written assessments by Faculty Advisor and/or Co-operating Teacher).

Teacher candidates seeking voluntary withdrawal from a practicum placement, whether permanent or temporary, must receive permission to do so from the Chair of Education. Teacher candidates should make this decision only after careful consideration of the possible impact on their practicum experience-based assignments.

Failure to give appropriate notice of withdrawal during a practicum placement, without consultation and approval of the Practicum Placement Co-ordinator, and/or Stream Co-ordinator, will result in withdrawal from UNBC's Education Program. Teacher candidates who withdraw voluntarily from a practicum placement must notify the Practicum Placement Co-ordinator in writing at least one week in advance of the commencement of the classroom placement. Teacher candidates who are required to withdraw from a practicum placement must make an appointment to see Practicum Placement Co-ordinator and the Chair of Education.

Teacher candidates who have withdrawn for any reason from a Classroom Practice & Seminar course, or who wish to re-enter, or re-take, the course must apply to the BEd Admissions and Standards Committee for re-admission to the course. Teacher candidates should not assume that re-admission would automatically be granted. The number of times a teacher candidate can be re-admitted to Classroom Practice & Seminar courses is limited to once except in cases where there are dire circumstances beyond the teacher candidates' control as set out in the UNBC "Conditions of Academic Standing" (Academic Regulation #48). Teacher candidates will only be re-admitted to a Classroom Practice & Seminar course when, in the opinion of those responsible for the supervision of the previous attempt, there was evidence of significant progress toward meeting the outcomes for the practicum placement. Teacher candidates will not be re-admitted to any single Classroom Practice & Seminar more than once. Teacher candidates will not be re-admitted to a Classroom Practice & Seminar course if they have previously been re-admitted to any other Classroom Practice & Seminar course in any of UNBC's BEd programs.

## Part-Time Students in the BEd Program

The Bachelor of Education program at UNBC is a full-time study program with a program fee. It is expected that all students registered in this program will be enrolled on a full-time basis. However, under exceptional circumstances, where students are unable to fulfill full-time study for family, personal, or health reasons, students may be allowed to continue the program on a part-time basis. Application to continue on a part-time basis must be made in writing to the Program Chair of Education and approved by the Dean of the College of Arts, Social and Health Sciences. Where this is approved, the student's fees will be assessed on a pro-rated basis using the Current Bachelor of Education program fee for the semester.

## BEd Graduation Requirements

To be eligible for a Bachelor of Education degree the candidate must normally have earned:

- a passing grade in each of the courses comprising the degree program, and no lower than a "C+" grade on all Education courses; and,
- a minimum "C+" GPA.
- The British Columbia College of Teachers: Current legislation requires that every person appointed or retrained as a teacher in a public school be a member of the British Columbia College of Teachers and hold a valid certificate of qualification issued by the BCCT. It is the responsibility of the individual to make an application to the Registrar of the British Columbia College of Teachers for initial certification, or for a change in certification, and to provide all documentation.
- The Teacher Qualification Service: Salary categories for teachers are established by the Teacher Qualification Service upon application, and only when a British Columbia teaching credential has already been granted by the British Columbia College of Teachers. Categories are assigned on the basis of completed years of academic and professional preparation. Partial years are not considered.
- Procedure and Documentation: Application forms for the British Columbia College of Teachers and the Teacher Qualification Service are available from the School Experience Office, as well as directly from the agencies.

## Post-Baccalaureate Diploma (Curriculum & Instructional Studies and Montessori Education)

Program Coordinator: Andrew Kitchenham  
Willow Brown, Assistant Professor  
Colin Chasteauneuf, Assistant Professor  
Bryan Hartman, Professor  
Andrew Kitchenham, Associate Professor  
Judith Lapadat, Professor  
Peter MacMillan, Associate Professor  
Monty Palmantier, Lecturer  
Dennis Procter, Assistant Professor  
Lantana Usman, Assistant Professor

Website: [www.unbc.ca/education/pbdp](http://www.unbc.ca/education/pbdp)

The Post-Baccalaureate Diploma program and courses within it are designed to advance the professional knowledge and skills of practicing K-12 teachers. Diploma requirements are coherent with the BC Teacher Qualification requirement for 30 credits in a focused area of study for an increase in professional certification from level 4 to 5. Admission is on a course by course basis to accommodate teachers who may want to increase their competency or update their knowledge and skills in a particular area of instruction. Flexible admission also allows for teachers to select the variable number of courses required to increase professional standing to the "five plus" category currently administered by some school districts.



# Undergraduate Programs: Post-Baccalaureate Diploma

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## Admission

Applicants applying for admittance to the Diploma Program require a four-year (120 credit hours) undergraduate degree from a UNBC-recognized university completed with a cumulative grade point average of 2.0 or better. Applicants must have the ability to study and work in English. An additional requirement for this Post-Baccalaureate Diploma is that students possess a current teaching certificate or are admitted with the approval of the admissions committee.

The number of spaces in each course offered in the Post-Baccalaureate Diploma program is limited; therefore, course registration will be on a first come first served basis until the specified course is full. This program admits new students three times per year, at the start of each term: October 30 for the January Term, April 30 for July/August courses, and June 30 for the September Term.

To accommodate practicing teachers, Diploma courses are offered in the late afternoon or evening, on weekends, and during the summer. It is recommended that students plan to make full use of the Summer Session offerings to complete the Diploma within the ten year time limit. It is recommended that students complete the two compulsory courses early in their program of studies.

Applicants are required to submit proof of a recent criminal records check (within five years). Students are expected to abide by expectations for professional conduct for the teaching profession in British Columbia.

## Program Requirements

Completion of a Post-Baccalaureate Diploma is achieved with 30 credits of coursework, including two compulsory courses and eight electives taken entirely from one or the other focus areas. The focus areas offered at this time are Curriculum and Instructional Studies and Montessori Education.

Students may be granted credit for up to 15 credits of upper division coursework from another recognized institution, provided that such courses have not been associated with the receipt of a degree or diploma.

## Required Courses

EDUC 500-3 Teacher Leadership

One of the following:

- EDUC 501-3 Action Research in Schools and Classrooms
- EDUC 502-3 Interpretation and Application of Educational Research

## Elective Courses (Curriculum and Instructional Studies)

- EDUC 504-3 Instructional Leadership for Cooperating Teachers (a weekend seminar to follow classroom supervision of extended B.Ed. practicum and to reflect on these mentorship experiences in terms of the instructional leadership literature)
- EDUC 521-3 Classroom Assessment Practices
- EDUC 523-3 Teaching for Social Responsibility
- EDUC 528-3 Numeracy Strategies for Struggling Learners
- EDUC 531-3 Applications of Educational Technology
- EDUC 533-3 Human Development: Implications for Education
- EDUC 534-3 Achievement Motivation
- EDUC 535-3 Learning and Diversity: Inclusive Classrooms
- EDUC 541-3 Principles of Instruction
- EDUC 546-3 First Nations Education
- EDUC 551-3 Mathematics Education
- EDUC 552-3 Science Education
- EDUC 553-3 Social Studies Education
- EDUC 554-3 Literacy Strategies for Struggling Learners
- EDUC 558-3 Language Arts Education
- EDUC 559-3 Second Language Instruction
- EDUC 580-3 Visual Arts Across the Curriculum
- EDUC 581-3 Performing Arts Across the Curriculum
- EDUC 592-3 Special Topics  
(no limit as to the number of these courses)
- EDUC 593-3 Directed Readings
- EDUC 594-3 Self-Directed Professional Development

## Elective Courses (Montessori Education)

- EDUC 570-3 Montessori Theory
- EDUC 571-3 Montessori Curriculum and Instruction: Language
- EDUC 572-3 Montessori in Context: Child Development
- EDUC 573-3 Montessori Curriculum and Instruction: Scientific Literacy
- EDUC 574-3 Montessori Curriculum and Instruction: Mathematics
- EDUC 575-3 Montessori Integrated Cultural Studies and Field Study Planning
- EDUC 576-3 Montessori Integrated Studies Field Study
- EDUC 577-3 Montessori Portfolio

# Undergraduate Programs: English

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## English (BA Program)

Stan Beeler, Associate Professor  
Dee Horne, Professor, and Program Chair  
Karin Beeler, Associate Professor  
Robert Budde, Associate Professor  
Kevin Hutchings, Associate Professor, and Canada Research Chair,  
Romantic Studies: Environment, Culture, and Representation  
Lisa Dickson, Assistant Professor  
Kristen Guest, Assistant Professor  
Linda MacKinley-Hay, Assistant Professor  
Maryna Romanets, Assistant Professor  
Blanca Schorcht, Assistant Professor and Regional Chair South-Central  
Carla Glen, Lecturer  
Marian Scholtmeijer, Instructor

Website: <http://www.unbc.ca/english>

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 must be upper division courses (300 and 400 level) with at least nine credit hours of these at the 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.

## Program Requirements

### Subject Requirement

The major in English requires students to take 18 courses (54 credit hours) of English or approved ancillary courses and must include:

One of:

- ENGL 100-3 Introduction to Literary Structures
- ENGL 102-3 Introduction to Poetry
- ENGL 103-3 Introduction to Fiction
- ENGL 104-3 Introduction to Drama and/or Film

Both:

- ENGL 211-3 Survey of English Literature I
- ENGL 212-3 Survey of English Literature II

One of:

- ENGL 200-3 Gender and Literary Theory
- ENGL 300-3 Theory
- ENGL 400-3 Contemporary Theory

Two of:

- ENGL 210-3 Women and Literature: A Survey
- ENGL 280-3 Shakespeare
  - or ENGL 281-3 Introduction to Renaissance Literature
  - or ENGL 381-3 Renaissance Literature
- ENGL 282-3 Introduction to Restoration and 18th Century Literature
  - or ENGL 382-3 Restoration and 18th Century Literature
- ENGL 283-3 Introduction to Romantic Literature
  - or ENGL 383-3 Romantic Literature
- ENGL 284-3 Introduction to Victorian Literature
  - or ENGL 384-3 Victorian Literature
  - or ENGL 386-3 19th Century Literature in the United States
- ENGL 285-3 Modern British Literature
  - or ENGL 385-3 Modern and Contemporary Literature in the United States

Two of:

- ENGL 320-3 First Nations Literature
- ENGL 331-3 Genres in Canadian Literature
- ENGL 340-3 Postcolonial Literature
- ENGL 350-3 Comparative Literature
- ENGL 410-3 Contemporary Women's Literature
- ENGL 420-3 Advanced First Nations Literature
- ENGL 430-3 Special Topics in Canadian Literature
- ENGL 440-3 Postcolonial Literature I
- ENGL 450-3 Special Topics in Comparative Literature

An additional 10 courses (30 credit hours) of English or approved ancillary courses (chosen to ensure fulfillment of upper division requirement).

### 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 306-3 Indigenous Women: Perspectives
- WMST 309-3 Gender and Film
- WMST 311-3 History of Feminist Theories
- WMST 401-3 Cultural Studies: Gender, Race and Representation
- WMST 411-3 Contemporary Feminist Theories

Note: A maximum of three ancillary courses (nine credit hours) may be used to fulfill English subject requirements.

Students planning to continue on to a graduate degree in English should consult with English faculty and/or the receiving institution to assist them in determining which courses are most appropriate in fulfilling the additional 10 courses (30 credit hours) of English subject requirements.

## Upper Division Requirement

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

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

## Elective Requirement

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

## Joint Major in English/History

The minimum requirement for completion of a Bachelor of Arts with a Joint Major in English and History is 120 credit hours.

## Program Requirements

### Lower Division Requirement

ENGL 211-3	Survey of English Literature I
ENGL 212-3	Survey of English Literature II
HIST 190-3	The West and the World to 1660
HIST 191-3	The West and the World since 1660

One of:

ENGL 100-3	Introduction to Literary Structures
ENGL 102-3	Introduction to Poetry
ENGL 103-3	Introduction to Fiction
ENGL 104-3	Introduction to Drama and/or Film

One of:

ENGL 200-3	Gender and Literary Theory
ENGL 300-3	Theory
ENGL 400-3	Contemporary Theory

Two of:

ENGL 210-3	Women and Literature: A Survey
ENGL 280-3	Shakespeare
ENGL 281-3	Introduction to Renaissance Literature
ENGL 282-3	Introduction to Restoration and 18th Century Literature
ENGL 283-3	Introduction to Romantic Literature
ENGL 284-3	Introduction to Victorian Literature
ENGL 285-3	Modern British Literature
ENGL 381-3	Renaissance Literature

ENGL 382-3	Restoration and 18th Century Literature
ENGL 383-3	Romantic Literature
ENGL 384-3	Victorian Literature
ENGL 385-3	Modern and Contemporary Literature in the United States
ENGL 386-3	19th Century Literature in the United States

Nine additional credit hours (three courses) of History at the 100 or 200 level.

## Upper Division Requirement

Of the 39 credit hours of English (13 courses) required for this degree, at least 21 credit hours (seven courses) must be at the 300 and 400 level, with at least six of those 21 credit hours (two of seven courses) at the 400 level.

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

ENGL 320-3	First Nations Literature
ENGL 331-3	Genres in Canadian Literature
ENGL 340-3	Postcolonial Literature
ENGL 350-3	Comparative Literature
ENGL 410-3	Contemporary Women's Literature
ENGL 420-3	Advanced First Nations Literature
ENGL 430-3	Special Topics in Canadian Literature
ENGL 440-3	Postcolonial Literature I
ENGL 450-3	Special Topics in Comparative Literature

Eighteen credit hours (six courses) in History at the 300 or 400 level.

Fifteen additional credit hours of English (five courses) ensuring fulfillment of the upper division requirement. Two courses may be from the following list of English ancillary courses:

WMST 209-3	Gender and Cultural Studies: An Introduction
WMST 304-3	Contemporary Women's Writing in and International Frame
WMST 309-3	Gender and Film
WMST 306-3	Indigenous Women: Perspectives
WMST 311-3	History of Feminist Theories
WMST 401-3	Cultural Studies: Gender, Race and Representation
WMST 411-3	Contemporary Feminist Theories

## Elective Requirement

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

# Undergraduate Programs: English

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## Joint Major in English/Political Science

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

### Program Requirements

#### Lower Division Requirement

ECON 205-3 Statistics for the Social and Management Sciences  
or MATH 242-3 Statistics for Social and Health Sciences

ENGL 211-3 Survey of English Literature I  
ENGL 212-3 Survey of English Literature II  
POLS 100-3 Contemporary Political Issues  
POLS 200-3 Canadian Government and Politics  
POLS 202-3 Comparative Government and Politics  
POLS 270-3 Political Philosophy: Plato to Hobbes  
POLS 290-3 Research and Writing for Political Science

One of:

ENGL 100-3 Introduction to Literary Structures  
ENGL 102-3 Introduction to Poetry  
ENGL 103-3 Introduction to Fiction  
ENGL 104-3 Introduction to Drama and/or Film

One of:

ENGL 200-3 Gender and Literary Theory  
ENGL 300-3 Theory  
ENGL 400-3 Contemporary Theory

Two of:

ENGL 210-3 Women and Literature: A Survey  
ENGL 280-3 Shakespeare  
ENGL 281-3 Introduction to Renaissance Literature  
ENGL 282-3 Introduction to Restoration and 18th Century Literature  
ENGL 283-3 Introduction to Romantic Literature  
ENGL 284-3 Introduction to Victorian Literature  
ENGL 285-3 Modern British Literature  
ENGL 381-3 Renaissance Literature  
ENGL 382-3 Restoration and 18th Century Literature  
ENGL 383-3 Romantic Literature  
ENGL 384-3 Victorian Literature  
ENGL 385-3 Modern and Contemporary Literature in the United States  
ENGL 386-3 19th Century Literature in the United States

#### Upper Division Requirement

Of the 39 credit hours of English (13 courses) required for this joint major, 21 credit hours (seven courses) must be at the 300 and/or 400 level, with at least six of those 21 credit hours (two of seven courses) at the 400 level.

POLS 303-3 Democracy and Dictatorship  
POLS 370-3 Political Philosophy: Locke to Marx

Two of:

ENGL 320-3 First Nations Literature  
ENGL 331-3 Genres in Canadian Literature  
ENGL 340-3 Postcolonial Literature  
ENGL 350-3 Comparative Literature  
ENGL 410-3 Contemporary Women's Literature  
ENGL 420-3 Advanced First Nations Literature  
ENGL 430-3 Special Topics in Canadian Literature  
ENGL 440-3 Postcolonial Literature I  
ENGL 450-3 Special Topics in Comparative Literature

One of:

POLS 313-3 Women and Politics  
POLS 317-3 Politics and Ethics  
POLS 325-3 Canadian Politics and Identity

One of:

POLS 400-(3-6) Classics in Political Theory  
POLS 472-3 Contemporary Theories of Political Communities

Fifteen additional credit hours in English (five courses). Up to two of the following ancillary courses (up to six credit hours) may be counted among those five additional courses:

WMST 209-3 Gender and Cultural Studies: An Introduction  
WMST 306-3 Indigenous Women: Perspectives  
WMST 309-3 Gender and Film  
WMST 311-3 History of Feminist Theories  
WMST 401-3 Cultural Studies: Gender, Race and Representation  
WMST 411-3 Contemporary Feminist Theories

Nine additional credit hours (three courses) of Political Science at the 300 or 400 level.

### Elective Requirement

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

## Joint Major in English/Women's Studies

The minimum requirement for completion of a Bachelor of Arts with a Joint Major in English and Women's Studies is 120 credit hours.

### Program Requirements

#### Lower Division Requirement

WMST 100-3 Introduction to Women's Studies  
ENGL 211-3 Survey of English Literature, I  
ENGL 212-3 Survey of English Literature, II

One of:

ENGL 200-3/  
WMST 220-3 Gender and Literary Theory  
ENGL 210-3/  
WMST 221-3 Women and Literature: A Survey

## Undergraduate Programs: English

One of:

ENGL 100-3	Introduction to Literary Structures
ENGL 102-3	Introduction to Poetry
ENGL 103-3	Introduction to Fiction
ENGL 104-3	Introduction to Drama and/or Film

Six credit hours of Women's Studies at the 100 or 200 level.

### Upper Division Requirement

WMST 302-3	Women and the Contemporary World
WMST 307-3	Qualitative Research Methods
HIST 311-3	History of Feminism or WMST 311-3 History of Feminism
ENGL 410-3	Contemporary Women's Literature or WMST 420-3 Contemporary Women's Literature

One of:

ENGL 300-3	Theory
ENGL 400-3	Contemporary Theory

One of:

ENGL 320-3	First Nations Literature
ENGL 331-3	Genres in Canadian Literature
ENGL 350-3	Comparative Literature
ENGL 410-3	Contemporary Women's Literature
ENGL 420-3	Advanced First Nations Literature
ENGL 430-3	Special Topics in Canadian Literature
ENGL 440-3	Postcolonial Literature I
ENGL 450-3	Special Topics in Comparative Literature

### Additional Requirements:

Two of:

ENGL 280-3	Shakespeare
ENGL 281-3	Introduction to Renaissance Literature
ENGL 282-3	Introduction to Restoration and 18th Century Literature
ENGL 283-3	Introduction to Romantic Literature
ENGL 284-3	Introduction to Victorian Literature
ENGL 285-3	Modern British Literature
ENGL 381-3	Renaissance Literature
ENGL 382-3	Restoration and 18th Century Literature
ENGL 383-3	Romantic Literature
ENGL 384-3	Victorian Literature
ENGL 385-3	Modern and Contemporary Literature in the United States

Nine credit hours of English courses at the 300 or 400 level.

At least fifteen credit hours selected from the following:

WMST 303-3	Lesbian and Bisexual Lives
WMST 304-3	Contemporary Women's Writing in an International Frame
WMST 306-3/ FNST 306-3	Indigenous Women: Perspectives
WMST 309-3	Gender and Film
WMST 312-3/	

HIST 312-3	Introduction to the History of Gender
WMST 401-3	Cultural Studies: Gender, Race, and Representation
WMST 410-3	Feminist Political Philosophy
WMST 411-3	Contemporary Feminist Theories

WMST 413-(3-6)/ FNST 413(3-6)/ WMST 498 (3-6)	Topics in Aboriginal Women Selected Topics
ANTH 401-3	Anthropological Perspectives on Inequality
ANTH 406-3	Feminist Perspectives in Anthropology
COMM 333-3	Women in Organizations
ECON 301-3	Women and the Economy
ENVS 309-3	Women and Environmental Studies
FNST 307-3	Race, Class, Gender, Power
HIST 309-3	Women in Canada
HIST 453 (3-6)	Topics in the History of Gender
HIST 454 (3-6)	Topics in Women's History
INTS 308-3	Gender and International Studies
NURS 412-3	Women and Health
POLS 313-3	Women and Politics
POLS 403-3	Social and Health Policy and Administration
POLS 434-3	Resource Communities in Transition
SOCW 433-3	Women in the Human Services
SOCW 449-3	Gender and Sexuality

### Elective Requirement

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

### Minor in English

The minor in English requires that students take at least six English courses (18 credit hours), at least four (12 credit hours) 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. The minor must include:

One of:

ENGL 200-3	Gender and 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.

### Bachelor of Fine Arts Program (BFA Program)

Joint degree in Fine Arts and Creative Writing (see calendar entry under Bachelor of Fine Arts).

## Environmental Programs (BAsc, 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 Programs recognize the complex nature of these issues through the integrated approach contained in the three degree offerings: the Joint UNBC/UBC Bachelor of Applied Science in Environmental Engineering, the Bachelor of Arts in Environmental Studies, and the Bachelor of Science in Environmental Science.

## Environmental Engineering (BAsc Program)

Peter Jackson, Associate Professor and Program Co-Chair  
Kerry Reimer, Associate Professor and Program Co-Chair  
Joselito Arocena, Professor, and Canada Research Chair, Soil and Environmental Sciences  
Ron Thring, Professor  
Jianbing Li, Associate Professor  
Philip Owens, Associate Professor and Endowed Chair Landscape Ecology  
Michael Rutherford, Associate Professor  
Jueyi Sui, Associate Professor  
Youmin Tang, Associate Professor, and Canada Research Chair, Climate Prediction and Predictability  
Stephen Dery, Assistant Professor, and Canada Research Chair, Northern Hydrometeorology  
Steve Helle, Assistant Professor  
Belinda Larisch, Senior Lab Instructor

Website: <http://www.unbc.ca/engineering>

Engineers serve society across a wide range of economic sectors, and an increased number of engineering graduates are needed by the province to assure its economic growth and maintain its high quality of life. As one aspect of this, future development decisions in most major sectors of the British Columbia economy must fully integrate environmental and economic factors. Problems in water, air and soil pollution control and remediation, solid waste management, mine waste disposal, and geo-environmental engineering require highly skilled engineers with a solid background in environmental engineering, strong communication skills and the ability to work across disciplines. The program prepares graduates for a wide range of employment opportunities where the technical expertise and problem solving skills of engineers are needed in conjunction with a strong awareness and understanding of environmental issues and problems. This is the case most particularly for resource industries (e.g. forestry, fisheries, mining, oil and gas, pulp and paper, and the agri-food industry); various government departments and research organizations; and in environmental engineering consulting companies. It is also anticipated that graduates will work in the new environmental economy—areas related to environmental reclamation, remediation and restoration.

The Environmental Engineering Bachelor of Applied Science program is a 4.5 year (nine semester) joint degree between the University of British Columbia and the University of Northern British Columbia. The program is based on a unique collaboration between UNBC and UBC that capitalizes on the strength of UNBC in Environmental Science and the strength of UBC in Engineering. It incorporates complementary elements and expertise from each institution while maintaining the exposure of students to the distinctive character of both institutions. The program starts with a two-year foundation in mathematics, basic and environmental sciences from UNBC. In the third and fourth years, the program provides a thorough education and training in engineering fundamentals, engineering analysis and engineering design, largely through courses in Civil Engineering and Chemical and Biological Engineering at the University of British Columbia. The final term at UNBC exposes students to practical environmental engineering problems.

The Environmental Engineering program is accredited by the Canadian Engineering Accreditation Board of the Canadian Council of Professional Engineers.

## Admission Requirements

Admission to the program is limited and 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 1.

Applicants from BC and Yukon secondary schools must:

- Meet UNBC admission requirements, and
- Have an average of at least 75% based on the following four courses: Principles of Math 12, English 12 and two provincially examinable Science 12 courses. In addition, applicants must have successfully completed Chemistry 11 and either Biology 11 or Biology 12 in order to meet course prerequisites in the Program. Physics 12 or an equivalent is strongly recommended, as it is a prerequisite for first-year Physics courses in the program. Students who are admitted without the Physics 12 prerequisite may be delayed in their studies as they may not be able to complete the first four semesters of the program in the normal two year time period. Meeting the minimum GPA does not guarantee admission. Under exceptional circumstances the prerequisites may be waived.

Other applicants must demonstrate that they possess qualifications at least equivalent to the BC and Yukon requirement.

## Regulations

Unless otherwise specified, the rules and regulations will be those applicable at the institution (UBC or UNBC) at which the students are attending at the time the rules/regulations need to be applied. In the case where the rules and regulations are needed to cover the program as a whole, or where the institution of attendance is not relevant, then

# Undergraduate Programs: Environmental Engineering

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the more stringent rules/regulations will be applied. Any academic appeals will be handled using the procedures at the institution where the rules/regulations need to be applied.

## Residency

The minimum residency requirement is 90 credits. These may be fulfilled through a combination of courses taken at UNBC and UBC, provided that at least 30 credits are completed at each of the two institutions.

## Progression

Progression between years and institutions requires good academic standing in the program at the most recent institution of residence (UNBC or UBC). At UNBC this means a GPA of at least 2.00 or 63%. At UBC this means an average of at least 55%, and passing grades in at least 65% of the credits taken.

## Graduation

It is the responsibility of the student to ensure that his/her degree requirements are met. Students must have a CGPA of at least 2.00 (63%) over all courses at both institutions to graduate. The diploma will carry crests from both granting institutions (UNBC and UBC).

## Transfers

Transfers into the program are allowed provided that the prerequisite courses or articulated courses are completed, and space is available in the program. Acceptance of transfers into the program will be based upon GPA, with priority given to those with the highest GPA. Regardless of the articulated courses transferred, students must satisfy the residency requirement (see above).

## Co-operative Education

Co-operative education is an optional but strongly recommended element of the Environmental Engineering program. The co-op option of the program will be administered by UNBC with the close co-operation of UBC. Students will require a 2.75 GPA in their program of study to qualify for entry and continuance in the co-op option. Students will be eligible to apply for the co-op option during their first academic year at UNBC and will be eligible to experience their first work term upon completion of 30 credits at UNBC. Students will be eligible to experience their second work term after completing 60 credits at UNBC.

## Program Requirements

UNBC degree requirements:	85 credit hours
UNBC elective credits:	6 credit hours
UBC degree requirements:	59 credit hours
UBC technical elective credits:	9 credit hours
UBC design elective credits:	3 credit hours
Total credits for degree:	162 credit hours

### Semester 1 and 2 completed at UNBC

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
CHEM 120-1	General Chemistry Lab I
CHEM 121-1	General Chemistry Lab II
CPSC 110-3	Introduction to Computer Systems and Programming
ENSC 100-1	Introduction to Engineering Seminar
MATH 100-3	Calculus I
MATH 101-3	Calculus II
NRES 100-3	Communications in NRES
PHYS 110-4	Introductory Physics I: Mechanics
PHYS 111-4	Introductory Physics II: Waves and Electricity
CORE 101-3	Humanities
	or CORE 103-3 Social Sciences
	Social Sciences or three credit hours of Humanities and Social Science courses. Humanities and Social Science courses may be selected from among the areas that are considered Humanities and Social Science for purposes of the BA (General). POLS 100-3 Contemporary Political Issues is recommended in meeting this requirement as it is a prerequisite for ENPL 401-3 in semester 9 of the program.

### Semester 3 and 4 completed at UNBC

CHEM 200-3	Physical Chemistry I
CHEM 220-3	Organic and Biochemistry
ENSC 200-3	Fundamentals of Environmental Engineering
ENSC 201-3	Introduction to Atmospheric Science
ENSC 202-3	Introduction to Aquatic Systems
ENSC 350-3	Fluid Mechanics
FSTY 205-3	Introduction to Soil Science
MATH 200-3	Calculus III
MATH 220-3	Linear Algebra
MATH 230-3	Linear Differential Equations and Boundary Value Problems
MATH 342-3	Biostatistics

### Semester 5 and 6 completed at UBC

CHBE 241-3	Mass, Energy, Momentum Balance
CHBE 242-3	Chemical and Biological Process Technology
CHBE 364-2	Environmental Engineering Laboratory
CHBE 373-3	Water Pollution Control
CHBE 484-3	Pollution Prevention Engineering
CIVL 200-3	Engineering and Sustainable Development
CIVL 210-4	Soil Mechanics I
CIVL 315-4	Fluid Mechanics II
CIVL 316-4	Hydrology and Open Channel Flow
MMPE 391-3	Mining and the Environment

# Undergraduate Programs: Environmental Engineering, Planning

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Three credit hours of technical elective chosen from a constrained list.

## Semester 7 and 8 completed at UBC

CHBE 346-3	Chemical and Biological Engineering Thermodynamics
CHBE 351-3	Transport Phenomena II
CHBE 459-3	Chemical and Biological Engineering Economics
CHBE 485-3	Air Pollution Control
CHBE 489-3	Pollution Control in the Pulp and Paper Industry
CIVL 402-2	Engineering Law and Contracts in Civil Engineering
CIVL 408-3	Geoenvironmental Engineering
CIVL 409-3	Design of Water Supply and Waste Conveyance Systems
CIVL 416-3	Environmental Hydraulics

Three credit hours of design elective chosen from a list of design oriented courses.

Six credit hours of technical electives chosen from a constrained list.

## Semester 9 completed at UNBC

ENPL 401-3	Environmental Law
ENSC 417-6	Designing Solutions in Environmental Engineering
ENSC 418-3	Environmental Measurement and Analysis

Three credit hours of Social Science or Humanities elective.

Three credit hours of elective.

Technical electives available at UNBC for the UBC portion of the curriculum in the UBC/UNBC Joint Environmental Engineering Program

The following UNBC courses may be used to meet a Technical Elective requirement in the UBC portion of the Joint UBC/UNBC Environmental Engineering B.A.Sc. program. Normally, no more than one course from the list may be used.

## Technical Electives at UNBC

ENSC 404-3	Waste Management
ENSC 406-3	Environmental Modelling
ENSC 408-3	Storms
ENSC 425-3	Global Change Science
ENSC 451-3	Groundwater Hydrology
ENSC 452-3	Reclamation and Remediation of Disturbed Environments
ENSC 453-3	Environmental Resources Management and Decision Making
FSTY 455-3	Biogeochemical Processes in Soil Systems
NREM 410-3	Watershed Management

## School of Environmental Planning (BPI)

John Curry, Associate Professor  
David Connell, Assistant Professor  
Eric Rapaport, Assistant Professor, and Acting Program Chair  
Orland Wilkerson, Assistant Professor  
Raymond Chipeniuk, Adjunct Professor  
Theresa Healy, Adjunct Professor  
Richard Krehbiel, Adjunct Professor  
James Randall, Adjunct Professor  
Finlay Sinclair, Adjunct Professor

Website: <http://www.unbc.ca/planning>

The Bachelor of Planning degree provides a broad education in environmental planning. The focus is on understanding the relationship between people and the environment and on reducing the environmental impact of human activities.

The study of planning examines public processes that improve the quality of decisions affecting the environment. Responsible planning integrates various private and public interests and identifies viable, workable options. Planners play a vital role in decisions about the future of human settlements, resource management, environmental protection, human health and well-being, economic development, and many other areas. Ultimately, the work of planners becomes part of or a catalyst to public policy.

To achieve its purposes, Environmental Planning offers a comprehensive program of courses, such as environmental assessment, ecological design, economic development, First Nations planning, land use planning, and sustainable communities. Each course provides a creative and challenging learning environment for students to tackle today's most contentious issues such as sustainability, climate change, biodiversity, environmental stewardship, and urban sprawl. Environmental Planning offers unique perspectives on a rapidly evolving field of study and solutions for an increasingly complex world.

Environmental Planning is dedicated to upholding professional standards of practice and is accredited by the Canadian Institute of Planners (CIP) and the Planning Institute of British Columbia (PIBC). Accreditation is a system for promoting national standards of education in planning and for recognizing educational institutions for a level of performance, integrity, and quality.

Accreditation benefits students in Environmental Planning in three ways:

- Current students can apply for Student Membership in PIBC;
- Graduates are eligible for Full Membership in PIBC and CIP after only two years of professional planning experience; and
- Employers in the planning field look for students graduating from an accredited planning program, thus significantly improving graduates' job prospects.



# Undergraduate Programs: Environmental Planning

Three majors are available to students completing the Bachelor of Planning:

- Northern and Rural Community Planning
- First Nations Planning
- Natural Resources Planning (Energy Specialization available in Fort St. John)

Planning students complete a set of general program requirements in addition to completing specialized requirements for each Major.

## Program Requirements

### Lower Division General Environmental Planning Requirement

#### 100 Level

ECON 100-3	Microeconomics
ENPL 104-3	Introduction to Planning
POLS 100-3	Contemporary Political Issues

#### 200 Level

ECON 205-3	Statistics for the Social and Management Sciences or MATH 242-3 Statistics for Social and Health Sciences
ENPL 204-3	Principles and Practices of Planning
ENPL 205-3	Environment and Society
ENPL 206-3	Planning Analysis and Techniques
ENPL 207-3	Introduction to Computer Aided Design for Planners
ENPL 208-3	First Nations Community and Environmental Planning
GEOG 204-3	Introductory Geographical Information Systems for the Social Sciences
POLS 200-3	Canadian Government and Politics

### Upper Division General Environmental Planning Requirement

#### 300 Level

ENPL 301-3	Sustainable Communities: Structure and Sociology
ENPL 303-3	Spatial Planning with Geographical Information Systems
ENPL 304-3	Mediation, Negotiation and Public Participation
ENPL 305-3	Environmental Impact Assessment
ENPL 318-3	Professional Planning Practice
ENPL 319-3	Social Research Methods

#### 400 Level

ENPL 401-3	Environmental Law
ENPL 410-3	Land Use Planning
ENPL 411-3	Planning Theory, Process and Implementation
ENPL 415-3	Ecological Design
ENVS 414-3	Environmental and Professional Ethics

In addition, students may undertake ENPL 420-1 Research Methodology, ENPL 430-3 Undergraduate Thesis, ENPL 431-3 Professional Report, ENPL 440 (2-6) Internship as part of their electives.

## Major Requirements

Students must choose to specialize in one major. All course requirements in the major must be completed.

## Major in Northern and Rural Community Planning

The focus of this major is to promote an understanding of the complexity and diversity of environmental problems, to develop an appreciation of community change processes, and to 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 major combines concepts such as bioregionalism, sustainability, and landscape design within the context of physical land use planning, social planning and community economic development.

Northern and Rural Community Planning is the application of environmental planning principles and practices to the often unique social, economic, and ecological issues confronting northern and circumpolar communities in Canada and elsewhere in the northern hemisphere. Successfully addressing these issues requires an appreciation of how and why communities change, an understanding of relationships between northern communities and surrounding rural resource regions, an understanding of the place and function of northern communities and rural regions in the global environment, and a grounding in both physical and social science methods of research and analysis.

Students enrolled in the Northern and Rural Community Planning Major must successfully complete 120 credit hours, including a minimum of 57 credit hours of upper division courses. Major and elective course requirements must also be met. Students must ensure that they complete course prerequisites before registering in any course.

General requirement:	72 credit hours
Major requirement:	39 credit hours
Elective requirement:	9 credit hours

The minimum requirement for a Bachelor of Planning with a Major in Northern and Rural Community Planning is 120 credit hours.

### Lower Division

BIOL 110-3	Introductory Ecology
GEOG 100-3	Environments and People
GEOG 206-3	Social Geography

# Undergraduate Programs: Environmental Planning

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## Upper Division

- ENPL 313-3 Rural Community Economic Development  
POLS 316-3 Community Government and Politics  
or NREM 306-3 Society, Policy and Administration  
GEOG 402-3\* Geography of the Circumpolar North  
GEOG 424-3 Social Geography of Northern Communities  
POLS 434-3 Resource Communities in Transition  
or GEOG 305-3 Political Geography

Choice of five of the following:

- ENVS 306-3 Human Ecology  
ENVS 309-3 Women and Environmental Studies  
GEOG 306-3 Geography of International Development  
HHSC 102-3 Introduction to Health Sciences II: Rural and Aboriginal Issues  
INTS 340-3\* The Circumpolar North in Global Perspective  
INTS 410-3\* Environment and Development in the Circumpolar North  
ORTM 305-3 Protected Areas Planning & Management  
POLS 251-3 Local Services and Public Policy  
POLS 335-3 Community Politics

\* indicates course has pre-requisite.

## Major in First Nations Planning

First Nation communities have significant, and growing, demands for qualified planners. As many First Nations move to define land claims in Canada, potentially giving First Nations significant responsibilities for land and community planning, and as others work to build upon existing treaties, the availability of skilled planners becomes essential. However, planning by, and with, First Nations requires specific skills and abilities in the planners, whether or not they themselves are First Nation.

For most First Nation communities few distinctions are made between ecological/environmental planning and planning for social and cultural needs. Cultural and social needs are developed from within, and are grounded in, the ecosystem. First Nations planning must necessarily integrate all. First Nations wish to remain grounded in tradition; and seek to move into the future through sound community economic development and skilled land management. Most, finally, face significant community development needs, including infrastructure development, housing, and health planning. Students will need not just a sound grasp of planning principles, but will need to understand the protocols, history, social structure, and ecology of Canadian First Nations. Further, cross cultural translation skills, community participation techniques, and a sound grounding in ethics will be required.

Students enrolled in the First Nations Planning Major must successfully complete 121 credit hours, including a minimum of 49 credit hours of upper division courses. Major and elective course requirements must also be met. Students must ensure that they complete course prerequisites before registering in any course.

- General requirement: 72 credit hours  
Major requirement: 40 credit hours  
Elective requirement: 9 credit hours

The minimum requirement for a Bachelor of Planning with a Major in First Nations Planning is 121 credit hours.

## Lower Division

- BIOL 110-3 Introductory Ecology  
FNST 100-3 The Aboriginal Peoples of Canada  
GEOG 100-3 Environments and People  
FNST 203-3 Introduction to Traditional Environmental Knowledge  
FNST 250-3 Canadian Law and Aboriginal Peoples

## Upper Division

- ENVS 306-3 Human Ecology  
ENPL 313-3 Rural Community Economic Development  
NREM 303-3 First Nations' Approaches to Resource Management  
ENPL 409-4 Advanced First Nations Community and Environmental Planning  
FNST 451-3 Traditional Use Studies

Choice of three of the following:

- FNST 161-3 A First Nations Culture: Level 1  
FNST 215-3 Issues in External Relations for Contemporary Indigenous Peoples  
FNST 216-3 Issues in Internal Organization for Contemporary Indigenous Peoples  
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  
FNST 407-3 First Nations Perspectives on Race, Class, Gender and Power  
GEOG 403-3 Aboriginal Geography  
INTS 340-3\* The Circumpolar North in Global Perspective  
INTS 410-3\* Environment and Development in the Circumpolar North  
NREM 210-4 Integrated Resource Management  
POLS 316-3 Community Government and Politics  
POLS 415-3 Comparative Northern Development  
POLS 434-3 Resource Communities in Transition  
ORTM 305-3 Protected Area Planning and Management

\* indicates course has pre-requisite.

## Major in Natural Resources Planning

The major in Natural Resources Planning is designed to provide students with an understanding of the complexities of including the natural and cultural environment in planning decision-making. The major is intended to address both project level and large-scale environmental planning issues that occur in developments that impact the natural environment.

The objective of this major is to familiarize students with planning and decision-making in a variety of sectors that include provincial land use planning, environmental assessment, watershed planning and integrated resource and environmental management. These areas of planning are characterised by complex and intricate problems that revolve around how to use our natural resources and who should decide. The multidimensional aspects of environmental management include natural and cultural complexity, different desired futures, value differences, assessment and monitoring tools, and integration methods. This major emphasizes understanding planning in both the substantive realm (natural and social sciences), and the procedural realm (the process of including people in the decision-making process).

Students enrolled in the Natural Resources Planning Major must successfully complete 121 credit hours, including a minimum of 46 credit hours of upper division courses. Major and elective course requirements must also be met. Students must ensure that they complete course prerequisites before registering in any course.

General requirement:	72 credit hours
Major requirement:	40 credit hours
Elective requirement:	9 credit hours

The minimum requirement for a Bachelor of Planning with a Major in Natural Resource Planning is 121 credit hours.

### Lower Division

BIOL 101-4	Introductory Biology I
BIOL 102-4	Introductory Biology II
BIOL 201-3	Ecology
GEOG 210-3	Geomorphology
NREM 210-4	Integrated Resource Management

### Upper Division

ECON 305-3	Environmental Economics
or ENPL 313-3	Rural Community Economic Development
ENVS 306-3	Human Ecology
or ORTM 300-3	Recreation and Tourism Impacts*
ENPL 402-3	Terrain Assessment
NREM 400-4	Natural Resources Planning

Choice of three of the following:

BIOL 302-3	Limnology
ENSC 201-3	Introduction to Atmospheric Science
ENSC 202-3*	Introduction to Aquatic Systems
ENSC 308-3	Northern Contaminated Environments

ENSC 404-3	Waste Management
GEOG 401-3*	Resource Geography
NREM 204-3*	Introduction to Wildlife and Fisheries
NREM 410-3	Watershed Management
ORTM 200-3	Sustainable Outdoor Recreation and Tourism
ORTM 204-3	Visitor Behaviour
ORTM 305-3	Protected Area Planning and Management*
ORTM 400-3	Recreation and Tourism Ecology, Management and Design
or ORTM 407-3	Recreation, Tourism and Communities*

\*indicates course has pre-requisite.

## Major in Natural Resource Planning-Energy Specialization

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 Planning in Prince George or staff at the Fort St. John campus.

## Minor in Natural Resources Planning and Operations

The Natural Resources Planning and Operations minor is designed for students primarily interested in planning and operations (and their governing policies) related to the management of forested and non-forested lands. Students will learn about natural resource policy, forest-management planning and operations, environmental impacts of management practices, forest productivity and timber supply, and resource sustainability along with current computer-based management tools. It is strongly recommended that students taking this minor have a background in forest ecology and management.

The minor in Natural Resources Planning and Operations requires the completion of 19 credit hours, of which 12 credit hours must be at the upper division (i.e., 300 or 400 level). Courses used to fulfill major requirements may not be applied toward the minor in Forest Planning and Operations. It is the student's responsibility to ensure that they have the required prerequisites.

### Required Courses

NREM 210-4	Integrated Resource Management
ENVS 301-3	Natural Resources, Environmental Issues, and Public Engagement

Four from the following courses (with no more than two courses in any single program [e.g., ENPL]):

BIOL 325-3	Ecological Analysis
BIOL 413-3	Wildlife Management
ECON 305-3	Environmental Economics
ECON 330-4	Resource Economics

# Undergraduate Programs: Natural Resources Planning; Management

ECON 411-3	Cost-Benefit Analysis
ENPL 204-3	Principles and Practices of Planning
ENPL 303-3	Spatial Planning with GIS
ENPL 304-3	Mediation, Negotiation and Public Participation
ENPL 305-3	Environmental Impact Assessment
ENPL 410-3	Land Use Planning
ENPL 411-3	Planning Theory, Process and Implementation
ENSC 453-3	Environmental Resource Management / Decision Making
FSTY 310-3	Forest Economics
FSTY 315-3	Forest Soil Management
FSTY 405-3	Forest Growth and Yield
FSTY 407-3	Forest Products
GEOG 413-3	Advanced GIS
NREM 306-3	Society, Policy and Administration
NREM 410-3	Watershed Management
NREM 413-3	Agroforestry

## Minor in Planning

The minor in Planning is designed to provide students an opportunity to acquire a basic knowledge of 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 credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Planning.

The Minor in Planning requires the completion of 18 credit hours of ENPL Planning Courses, of which 12 credit hours must be at the upper division level. Of the 12 upper division credit hours, a minimum of 6 credit hours must be at the 400 level.

### Required

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

Two of:

ENPL 305-3	Environmental Impact Assessment
ENPL 318-3	Professional Planning Practice
ENPL 410-3	Land Use Planning
ENPL 415-3	Ecological Design
ENPL 419-3	Social Research Methods
ENVS 414-3	Environmental and Professional Ethics

## Minor in Social Dimensions of Natural Resources Management

The Minor in Social Dimensions of Natural Resources Management prepares students to engage the public and First Nations in collaborative processes dealing with the range of values encompassed within the practice of natural resources management. Upon

completion of the minor, students will be familiar with planning policy and practice as it applies to natural resources management, the range of values and social considerations that apply to a number of resource sectors, and tools for soliciting and involving multi-stakeholder interests.

The minor in Social Dimensions of Natural Resources Management requires the completion of a minimum of 24 credit hours of study. A maximum of two courses (6 credit hours) used to fulfill the requirements for a major, or another minor, may also be used to fulfill requirements for this minor. Students need to fulfill the prerequisite requirements for this minor.

### Required Courses

ENPL 401-3	Environmental Law (additional pre-requisites required POLS 100-3 Contemporary Political Issues)
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One of:

ENPL 304-3	Mediation, Negotiation and Public Participation
ENVS 326-3	Natural Resources, Environmental Issues, and Public Engagement

One of:

POLS 332-3	Community Development
POLS 434-3	Resource Communities in Transition

An additional five of the following courses (no more than 2 courses in any single program [e.g., ENPL]):

BIOL 350-3	Ethnobotany
ENPL 104-3	Introduction to Planning
ENPL 304-3	Mediation, Negotiation and Public Participation
ENPL 319-3	Social Research Methods
ENPL 409-4	Advanced First Nations Community and Environmental Planning
ENVS 326-3	Natural Resources, Environmental Issues, and Public Engagement
ENVS 325-3	Global Environmental Change: Science and Policy
FNST 203-3	Introduction to Traditional Ecological Knowledge
FNST 304-3	First Nations Environmental Philosophy and Knowledge
FSTY 440-3	Internship
GEOG 401-3	Resource Geography
GEOG 403-3	Aboriginal Geography
GEOG 424-3	Social Geography of Northern Communities
HIST 421-(3-6)	Topics in Environmental History
NREM 413-3	Agroforestry
ORTM 200-3	Sustainable Outdoor Recreation and Tourism
POLS 220-3	Canadian Law and Aboriginal Peoples
POLS 316-3	Community, Government and Politics
POLS 332-3	Community Development
POLS 434-3	Resource Communities in Transition

## Environmental Science (BSc Program)

Kerry Reimer, Associate Professor and Chair  
Joselito Arocena, Professor, and Canada Research Chair, Soil and Environmental Sciences  
Ron Thring, Professor  
Phillip Owens, Associate Professor and Endowed Chair Landscape Ecology  
Peter Jackson, Associate Professor  
Jianbing Li, Associate Professor  
Michael Rutherford, Associate Professor  
Jueyi Sui, Associate Professor  
Youmin Tang, Associate Professor, and Canada Research Chair, Climate Prediction and Predictability  
Stephen Dery, Assistant Professor, and Canada Research Chair, Northern Hydrometeorology  
Steve Helle, Assistant Professor  
Belinda Larisch, Senior Lab Instructor  
Jean Wang, Senior Lab Instructor

Website: <http://www.unbc.ca/envs>

## 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 and applied 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.

The program has been designed in part to address educational components of the National Occupational Standards (NOS) for Environmental Employment set out by The Canadian Council for Human Resources in the Environment Industry (CCHREI). The NOS forms the basis of the Canadian Certified Environmental Practitioner (CCEP) accreditation process of the Canadian Environmental Certification Approvals Board (CECAB).

Degree requirements: 103 credit hours  
Area of focus: 12 credit hours  
Elective credit hours in any subject as necessary to ensure completion of a minimum of 127 credit hours.

*Note: Students without a background in Political Science should take POLS 100-3 (Contemporary Political Issues).*

## 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 120-1 General Chemistry Lab I  
CHEM 121-1 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

#### 200 Level

BIOL 201-3 Ecology  
BIOL 203-3 Microbiology  
CHEM 201-3 Organic Chemistry I  
CHEM 250-1 Organic Chemistry Lab I  
ENSC 201-3 Introduction to Atmospheric Science  
ENSC 202-3 Introduction to Aquatic Systems  
FSTY 205-3 Introduction to Soil Science  
GEOG 205-3 Cartography and Geomatics  
GEOG 210-3 Geomorphology  
MATH 342-3 Biostatistics

### Upper Division Requirement

#### 300 Level

ENSC 308-3 Northern Contaminated Environments  
ENPL 305-3 Environmental Impact Assessment

Two of:

CHEM 200-3 Physical Chemistry I  
CHEM 203-3 Organic Chemistry II  
with CHEM 251-1 Organic Chemistry Lab II  
CHEM 210-3 Analytical Chemistry I  
CHEM 204-3 Introductory Biochemistry  
CHEM 302-4 Environmental Chemistry I  
PHYS 307-3 Environmental Physics

# Undergraduate Programs: Environmental Science

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Two of:

BIOL 302-3	Limnology
ENSC 312-3	Boundary-layer Meteorology
ENSC 350-3	Fluid Mechanics
ENSC 408-3	Storms
ENSC 425-3	Global Change Science
ENSC 454-3	Snow and Ice
FSTY 455-3	Biogeochemical Processes in Soil Systems
GEOG 310-3	Hydrology
GEOG 311-3	Concepts in Geomorphology

One of:

ENVS 309-3	Women and Environmental Studies
FNST 304-3	First Nations Environmental Philosophy and Knowledge
GEOG 401-3*	Resource Geography
GEOG 402-3*	Geography of the Circumpolar North
GEOG 403-3*	Aboriginal Geography
INTS 307-3*	Global Resources
INTS 340-3*	The Circumpolar North in Global Perspective
INTS 410-3*	Environment and Development in the Circumpolar North

## 400 Level

ENSC 406-3	Environmental Modelling
ENSC 418-3	Environmental Measurement and Analysis
ENPL 401-3*	Environmental Law
ENVS 414-3	Environmental and Professional Ethics

Two of:

ENSC 404-3	Waste Management
ENSC 412-3	Air Pollution
ENSC 451-3	Groundwater Hydrology Environments
ENCC 452-3	Reclamation and Remediation of Disturbed Environments
ENSC 453-3	Environmental Resources Management and Decision Making
NREM 410-3	Watershed Management

## Areas of Focus

Students may choose to focus in an environmental system (atmospheric, aquatic, terrestrial or ecological), in Environmental Chemistry or in Environmetrics (environmental techniques). 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 upper division (300 or 400 level); and
2. courses used to fulfill major requirements above may not be used to fulfill an area of focus requirement.

*\*Note: It is the student's responsibility to ensure prerequisite courses have been completed for the courses listed below.*

1. Aquatic Systems
2. Atmospheric Systems
3. Terrestrial Systems
4. Ecological Systems
5. Environmental Chemistry
6. Environmetrics

## Aquatic Systems

BIOL 204-3	Plant Biology
BIOL 302-3	Limnology
BIOL 307-3	Ichthyology and Herpetology
BIOL 402-3	Aquatic Plants
BIOL 406-3	Fish Ecology
ENSC 350-3	Fluid Mechanics
ENSC 451-3	Groundwater Hydrology
ENSC 454-3	Snow and Ice
GEOG 310-3	Hydrology
GEOG 405-3	Fluvial Geomorphology
NREM 410-3	Watershed Management

or one of: (Environmetrics list)

## Atmospheric Systems

CHEM 200-3	Physical Chemistry I
CHEM 302-4	Environmental Chemistry I
ENSC 312-3	Boundary-layer Meteorology
ENSC 408-3	Storms
ENSC 412-3	Air Pollution
ENSC 425-3	Global Change Science
ENSC 454-3	Snow and Ice
PHYS 307-3	Environmental Physics

or one of: (Environmetrics list)

## Ecological Systems

BIOL 202-3	Invertebrate Zoology
BIOL 204-3	Plant Biology
BIOL 210-3	Genetics
BIOL 301-3	Systematic Botany
BIOL 307-3	Ichthyology and Herpetology
BIOL 308-3	Ornithology and Mammalogy
BIOL 401-3	Plant-Microbial Interactions
BIOL 402-3	Aquatic Plants
BIOL 404-3	Plant Ecology
BIOL 406-3	Fish Ecology
BIOL 410-3	Population and Community Ecology
BIOL 411-3	Conservation Biology
FSTY 206-3	Forest Biology

or one of: (Environmetrics list)

## Terrestrial Systems

ENSC 404-3 Waste Management  
ENSC 451-3 Groundwater Hydrology  
FSTY 315-3 Forest Soil Management  
FSTY 425-3 Soil Formation and Classification  
FSTY 455-3 Biogeochemical Processes in Soil Systems  
GEOG 311-3 Concepts in Geomorphology  
GEOG 405-3 Fluvial Geomorphology  
GEOG 411-3 Advanced Elements in Geomorphology  
GEOG 412-3 Geomorphology of Cold Regions  
GEOG 414-3 Weathering Processes  
or one of: (Environmetrics list)

## Environmental Chemistry

*Note: Students selecting this focus area and who have not taken CHEM 210-3 elsewhere in their program, must select it here.)*

CHEM 200-3 Physical Chemistry I  
CHEM 203-3 Organic Chemistry II  
CHEM 210-3 Analytical Chemistry I  
CHEM 302-4 Environmental Chemistry I  
CHEM 310-3 Analytical Chemistry II  
CHEM 311-3 Analytical Chemistry III  
CHEM 400-3 Topics in Environmental Chemistry  
CHEM 403-3 Topics in Inorganic Chemistry  
CHEM 405-3 Topics in Biochemistry  
CHEM 408-3 Environmental Chemistry II  
CHEM 410-3 Topics in Analytical Chemistry  
FSTY 455-3 Biogeochemical Processes in Soil Systems  
or one of: (Environmetrics List)

## Environmetrics

CPSC 110-3 Introduction to Computer Systems and Programming  
CPSC 311-3 Computer Applications Programming  
ENSC 453-3 Environmental Resources Management and Decision Making  
GEOG 300-3 Geographic Information Systems  
GEOG 413-3 Advanced GIS  
GEOG 432-3 Remote Sensing  
MATH 200-3 Calculus III  
MATH 220-3 Linear Algebra  
MATH 230-3 Linear Differential Equations and Boundary Value Problems  
MATH 333-3 Partial Differential Equations  
MATH 334-3 Ordinary Differential Equations  
MATH 335-3 Numerical Analysis I  
MATH 433-3 Topics in Partial Differential Equations  
MATH 434-3 Topics in Applied Mathematics

## Elective Requirement

Elective credit hours as necessary to ensure completion of a minimum of 127 credit hours.

## BSc Honours–Environmental Science

The BSc Honours-Environmental Science provides a higher level of specialization and research experience, especially for students planning to proceed to postgraduate work.

Honours students are required to complete the degree requirements for the BSc Environmental Science Major. In addition to the total number of credits required for the Environmental Science Major (i.e. Degree Requirements plus Area of Focus courses and Electives), each student must complete 6 credit hours of upper division courses selected from their Area of Focus, as well as ENSC 430-6 or NRES 430-6 (Undergraduate Thesis) under the supervision of a faculty member.

The honours program is available after completing 60 credits in the Environmental Science Major and attaining a CGPA of not less than 3.33. Attaining the minimum requirement will not guarantee admission to the honours program, which will be at the discretion of the Program. Maintenance of a CGPA of 3.33 is required to remain in the honours program.

The minimum requirement for completion of a BSc Honours-Environmental Science is 139 credit hours.

## Minor in Environmental Science

The minor in Environmental Science offers an introduction to four environmental systems: aquatic, atmospheric, ecological, and terrestrial, as well as pollution and management, with the ability to develop more depth in one or two areas. 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 21 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  
ENSC 202-3 Introduction to Aquatic Systems  
ENSC 350-3 Fluid Mechanics  
ENSC 451-3 Groundwater Hydrology  
ENSC 454-3 Snow and Ice  
GEOG 310-3 Hydrology

# Undergraduate Programs: Environmental Science, Studies

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## Atmospheric Systems

ENSC 201-3	Introduction to Atmospheric Science
ENSC 312-3	Boundary-layer Meteorology
ENSC 408-3	Storms
ENSC 412-3	Air Pollution
ENSC 425-3	Global Change Science
ENSC 454-3	Snow and Ice

## Ecological Systems

BIOL 201-3	Ecology
BIOL 202-3	Invertebrate Zoology
BIOL 203-3	Microbiology
BIOL 210-3	Genetics
BIOL 301-3	Systematic Botany
BIOL 401-3	Plant-Microbial Interactions
BIOL 404-3	Plant Ecology
BIOL 410-3	Population and Community Ecology
BIOL 411-3	Conservation Biology

## Terrestrial Systems

ENSC 451-3	Groundwater Hydrology
ENSC 452-3	Reclamation and Remediation of Disturbed Environments
FSTY 205-3	Introduction to Soil Science
FSTY 455-3	Biogeochemical Processes in Soil Systems
GEOG 210-3	Geomorphology
GEOG 311-3	Concepts in Geomorphology
GEOG 405-3	Fluvial Geomorphology
GEOG 411-3	Advanced Elements in Geomorphology
GEOG 412-3	Geomorphology of Cold Regions
GEOG 414-3	Weathering Processes

## Environmental Pollution and Management

ENSC 302-3	Energy Development
ENPL 305-3	Environmental Impact Assessment
ENSC 308-3	Northern Contaminated Environments
ENSC 404-3	Waste Management
ENSC 406-3	Environmental Modelling
ENSC 412-3	Air Pollution
ENSC 451-3	Groundwater Hydrology
ENSC 452-3	Reclamation and Remediation of Disturbed Environments
ENSC 453-3	Environmental Resources Management and Decision Making
NREM 410-3	Watershed Management

## Environmental Studies (BA Program)

Kathy Lewis, Professor and Program Chair  
Annie Booth, Associate Professor  
John Curry, Associate Professor  
Scott Green, Associate Professor  
Roger Wheate, Associate Professor  
Eric Rapaport, Assistant Professor  
Tracy Summerville, Assistant Professor  
Orland Wilkerson, Assistant Professor  
Theresa Healy, Adjunct Professor  
Heather Myers, Adjunct Professor  
Finlay Sinclair, Adjunct Professor  
Scott Emmons, Senior Lab Instructor

Website: <http://www.unbc.ca/envs>

## 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.

Degree requirements: 69 credit hours

Elective credit hours in any subject as necessary to ensure completion of a minimum of 120 credit hours (at least 15 credit hours must be at the 300 or 400 level).

## Program Requirements

### Lower Division Requirement

#### 100 Level

BIOL 110-3	Introductory Ecology
CHEM 110-3	Chemistry for Everyday Life
ECON 100-3	Microeconomics
ENPL 104-3	Introduction to Planning
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

ENPL 204-3	Principles and Practices of Planning
ENPL 205-3	Environment and Society
GEOG 204-3	GIS for the Social Sciences or GEOG 300-3 Geographic Information Systems
GEOG 205-3	Cartography and Geomatics
POLS 200-3	Canadian Government and Politics



# Undergraduate Programs: Environmental Studies

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## Upper Division Requirement

### 300 Level

ENPL 301-3	Sustainable Communities: Structure and Sociology
ENPL 305-3	Environmental Impact Assessment
ENSC 308-3	Northern Contaminated Environments
ENVS 306-3	Human Ecology
ENVS 309-3	Women and Environmental Studies
GEOG 301-3	Cultural Geography
HIST 360-3	An Introduction to Environmental History
INTS 307-3	Global Resources
	or GEOG 401-3 Resource Geography
NREM 303-3	First Nations' Approaches to Resource Management

### 400 Level

ENPL 401-3	Environmental Law
ENPL 419-3	Social Research Methods
ENVS 414-3	Environmental and Professional Ethics

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

## Elective Requirement

Elective credit hours in any subject as necessary to ensure completion of a minimum of 120 credit hours (at least 15 of these elective credit hours must be at the 300 or 400 level).

## 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 credit 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

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

Three of:

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

## Minor in Global Environmental Change

The minor in Global Environmental Change offers a way for UNBC students to obtain a well-rounded perspective and knowledge-base on global change issues that encompasses not only the science of global change and change predictions, but also the political realities of environmental change and the way policy intersects with science.

The minor in Global Environmental Change requires the completion of 21 credit hours, 12 of which must be at the upper division 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 Global Environmental Change. Students must complete ENVS 325-3 and at least 9 credit hours from each of the two lists of courses indicated below for a total of 21 credit hours overall. Nine of these credit hours selected from the approved lists below must be from upper division courses.

### Required

ENVS 325-3	Global Environmental Change: Science and Policy
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Three of:

BIOL 110-3	Introductory Ecology
	or BIOL 201-3 Ecology
BIOL 404-3	Plant Ecology
ENSC 201-3	Introduction to Atmospheric Science
ENSC 308-3	Northern Contaminated Environments
ENSC 312-3	Boundary-Layer Meteorology
ENSC 408-3	Storms
ENSC 412-3	Air Pollution
ENVS 306-3	Human Ecology
GEOG 100-3	Environments and People
GEOG 432-3	Remote Sensing
PHYS 307-3	Selected Topics in Environmental Physics

## Undergraduate Programs: Environmental Studies, Fine Arts

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Three of:

ECON 305-3	Environmental Economics
ENPL 205-3	Environment and Society
ENPL 301-3	Sustainable Communities: Structure and Sociology
ENPL 305-3	Environmental Impact Assessment
ENPL 401-3	Environmental Law
GEOG 305-3	Political Geography
GEOG 401-3	Resource Geography
HIST 360-3	Introduction to Environmental History
HIST 421-(3-6)	Topics in Environmental History
INTS 205-3	Introduction to International Studies
INTS 300-3	International Organization
INTS 307-3	Global Resources
INTS 470-3	International Environmental Policy
ORTM 200-3	Sustainable Resource Recreation and Tourism
POLS 100-3	Contemporary Political Issues
POLS 334-3	Society, Policy and Administration of Natural Resources
or NREM 306-3	Society, Policy and Administration

The UNBC/ECIAD joint degree in Fine Arts and Creative Writing is an interdisciplinary project-based degree that links creative writing and studio practice within a critical context. Studio courses within the degree ensure that students establish foundational skills during their first year, and that they build expertise within several different disciplines in their second and third years. The fourth year of study focuses on work in an independent studio environment. Concurrently, academic courses in theory and creative writing provide a theoretical basis of understanding that enhances and informs studio experience. Although intended to support students in central northern BC, the unique character of this program may prove to be attractive for students from elsewhere in Canada and around the world. Such exposure will not only allow students to develop and combine a significant range of artistic abilities, it will also cultivate highly transferable skills. While many graduates may elect to pursue careers as practicing artists, others may choose to apply for graduate degrees in English or Fine Arts; to apply for professional degrees, such as law or education, requiring highly developed critical thinking skills; to seek employment in areas such as graphic design, web/computer design, and information based industries.

## Bachelor of Fine Arts (BFA Program)

**Joint degree in Fine Arts and Creative Writing offered through partnership between The University of Northern British Columbia and Emily Carr Institute of Art + Design**

Dee Horne, Professor, and Program Chair  
Stan Beeler, Associate Professor  
Karin Beeler, Associate Professor  
Robert Budde, Associate Professor  
Kevin Hutchings, Associate Professor, and Canada Research Chair, Romantic Studies: Environment, Culture, and Representation  
Blanca Schorcht, Associate Professor  
Lisa Dickson, Assistant Professor  
Kristen Guest, Assistant Professor  
Maryna Romanets, Assistant Professor  
Marian Scholtmeijer, Instructor

Website: <http://www.unbc.ca/finearts>

The Bachelor of Fine Arts degree is an interdisciplinary four year joint degree program between the University of Northern British Columbia and the Emily Carr Institute of Art + Design (ECIAD) that connects creative writing and studio practice. Courses within the program offer students the opportunity to develop applied, conceptual, and theoretical skills.

The program begins in September of each year and the application deadline is February 1. Anyone needing information about the application process should contact the UNBC Office of the Registrar. Students who want help regarding the required courses are encouraged to contact the Program Advisor.

Students must take 120 credits, whether directly or by transfer, split equally between the University of Northern British Columbia and the Emily Carr Institute of Art + Design. Students may elect to complete a portion of the required courses at the ECIAD's main campus during the summer months. All costs associated with student travel and stay at ECIAD are the responsibility of the student.

## Admission Requirement

Admission to the Bachelor of Fine Arts joint degree is competitive by direct entry to UNBC based on academic qualifications, portfolio, and available space. Priority admission will be given to students who meet admission criteria and apply by the deadline of February 01. 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 English 12 and other approved Grade 12 courses as specified in the Admissions section of the Undergraduate Calendar with an admission average of at least 67%
- submit a portfolio that includes ten examples of studio art and five pieces of creative writing. There will be sessions throughout the year for students to learn how to prepare a portfolio. For dates and times, please click on events on the English Program homepage.

Other applicants must demonstrate that they possess qualifications at least equivalent to the BC and Yukon requirement.

## Transfer Credit

Transfer credit and/or advanced standing may be awarded for course work completed at other recognized institutions.

## Graduation

It is the responsibility of the student to ensure that his/her degree requirements are met. Students must have a CGPA of at least 2.0 (63%) over all courses at both institutions to graduate.

## Student Transfers and Residency

Transfers into the program are allowed as long as the prerequisite courses or articulated courses are completed and there is space available in the program. The deadline for transfer students is the same as all students: February 1. Regardless of the articulated courses transferred, students must complete a minimum of 30 credit hours of their program at each of the granting institutions (at UNBC and at ECIAD).

The minimum residency requirement for graduation is 30 credits at each of UNBC and ECIAD.

## Curriculum

### Program Requirements

In order to meet the graduation requirements for a BFA, students must successfully complete the following requirements consisting of 120 credit hours. Students may count no more than 60 credit hours from each of UNBC and ECIAD towards the degree. For ECIAD course descriptions, please refer to the following URL: [http://www.eciad.ca/www/programs/course\\_search\\_sec.php](http://www.eciad.ca/www/programs/course_search_sec.php)

Please Note: Many of the ECIAD courses are to be provided on-line only. For further information, contact the Program Advisor. Courses marked with an asterisk (\*) may be available to be taken on-site at Emily Carr during the summer in advance of the semester offering.

### Lower Level Requirements

#### ECIAD Courses

FNDT 106-3	Drawing and 2-Dimensional Language
FNDT 108-3	Creative Processes
FNDT 109-3	Visual Communication
AHIS 102-3	Visual Culture
AHIS 103-3	Visual Culture II
PHOT 200-3	Photography Immersion
GEVA 202-3*	Project Research
DIVA 200-3	Digital Visual Arts
AHIS 210-3	Twentieth Century Art

Three credits of ECIAD Electives at the 100 or 200 level\*

#### UNBC Courses

ENGL 271-3 Introduction to Creative Writing

One of:

ENGL 100-3	Introduction to Literary Structures
ENGL 102-3	Introduction to Poetry
ENGL 103-3	Introduction to Fiction
ENGL 104-3	Introduction to Drama and/or Film

Two of:

ENGL 205-3	Fiction
ENGL 210-3	Women's Literature
ENGL 270-3	Expository Writing

### Upper Division Requirements

#### ECIAD Courses

GEVA 313-3*	Visual Arts Projects
HUMN 311-3	Visual Art Seminar
GEVA 410-6*	Senior Studio (6-credit)
HUMN 411-3	Written Project

One of:

DIVA 301-3	Online Portfolio
PHOT 319-3	Telling Story

Two of:

DHIS 310-3	History of Canadian Design
MHIS 330-3	History of Photographic Practices
DHIS 311-3	Pacific Rim Design History
AHIS 304-3	Art Now

Six credits of ECIAD Electives at the 300 or 400 level\*

#### UNBC Courses

ENGL 400-3	Contemporary Theory
ENGL 470-3	Creative Writing Poetry
ENGL 471-3	Creative Writing Fiction and Creative Non-Fiction
ENGL 472-3	Creative Writing Drama and Scriptwriting
ENGL 493-3	Cultural Studies

Two of:

ENGL 309-3	Intermediate Studies in Film or Television
ENGL 409-3	Special Topics in Film or Television Studies
FNST 301-3	Art and Material Culture of BC First Nations
FNST 408-3	Clothing and Adornment
FNST 410-3	Advanced Topics: Art and Culture
WMST 309-3	Gender and Film
WMST 401-3	Cultural Studies: Gender, Race, and Representation

UNBC Electives at any level in any subject to ensure completion of a minimum of 120 credit hours in total between the two institutions.

# Undergraduate Programs: First Nations

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## First Nations Studies (BA Program)

Fyre Jean Graveline, Professor and Program Chair  
Margaret Anderson, Professor  
Antonia Mills, Professor  
Margo Greenwood, Assistant Professor, and Academic Leader, National Collaborating Centre for Aboriginal Health  
Ross Hoffman, Assistant Professor  
Anne Sam, Assistant Professor  
Wendy Aasen, Adjunct Professor  
Joanne Fiske, Adjunct Professor  
Heather Harris, Adjunct Professor  
Paul Michel, Adjunct Professor  
Deanna Nyce, Adjunct Professor  
Karen Sharp, Lecturer

Website: <http://www.unbc.ca/firstnations>

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 understanding 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 390-3 (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.

## 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 (X-a'islak'ala): Level 1  
FNST 136-3 Haisla Language (X-a'islak'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 171-3 Métis Studies: Level 1  
FNST 172-3 Métis Studies: Level 2

### 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 at any level in any subject 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 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	Advanced First Nations Literature
GEOG 403-3	Aboriginal Geography
HIST 110-3	Indigena
HIST 390-3	Aboriginal People in Canada
HIST 391-3	Aboriginal People in the United States
HIST 303-3	British Columbia
HIST 456 (3-6)	Topics in Cultural Encounters
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 498-3	Special Topics in Nursing
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 455-3	First Nations Governance and Social Policy
SOCW 456-3	Family Caring Systems
SOCW 457-3	Individual and Community Wellness
WMST 306-3	Indigenous Women: Perspectives
WMST 413-(3-6)	Topics in Aboriginal Women's Studies

## Joint Major in First Nations Studies/Women's Studies

The First Nations Studies/Women's Studies Joint Major will equip students to understand the role of women in First Nations societies, political and social institutions, and economies. The degree ought to be particularly attractive to students who intend to pursue a career in education, business, public administration, communications, social services, and many other fields.

The minimum requirement for completion of a Bachelor of Arts with a Joint Major in First Nations and Women's Studies is 120 credit hours.

## Program Requirements

FNST 100-3	The Aboriginal Peoples of Canada
FNST 200-3	Methods and Perspectives in First Nations Studies
FNST 302-3	First Nations Health and Healing
FNST 305-3	Seminar in First Nations Studies
FNST 306-3/WMST 306-3	Indigenous Women: Perspectives
FNST 413-3/WMST 413-3	Topics in Aboriginal Women's Studies
WMST 100-3	Introduction to Women's Studies
WMST 302-3	Women and the Contemporary World

At least three additional credit hours of 100-level First Nations in a culture or language.

At least six additional credit hours of Women's Studies at the 100 or 200 level.

## Upper Division Requirement

At least four additional courses selected from the following:

WMST 303-3	Lesbian and Bisexual Lives
WMST 304-3	Contemporary Women's Writing in an International Frame
WMST 309-3	Gender and Film
WMST 312-3/HIST 312-3	Introduction to the History of Gender
WMST 401-3	Cultural Studies: Gender, Race, and Representation
WMST 410-3	Feminist Political Philosophy
WMST 411-3	Contemporary Feminist Theories
WMST 420-3/ENGL 410-3	Contemporary Feminist Literature
WMST 498-(3-6)	Selected Topics
ANTH 401-3	Anthropological Perspectives on Inequality
ANTH 406-3	Feminist Perspectives in Anthropology
COMM 333-3	Women in Organizations
ECON 301-3	Women and the Economy
ENVS 309-3	Women and Environmental Studies
FNST 407-3	Race, Class, Gender, Power
HIST 309-3	Women in Canada
HIST 453 (3-6)	Topics in the History of Gender
HIST 454 (3-6)	Topics in Women's History
INTS 308-3	Gender and International Studies
NURS 412-3	Women and Health
POLS 313-3	Women and Politics
SOCW 433-3	Women in the Human Services
SOCW 449-3	Gender and Sexuality

At least fifteen additional credit hours of First Nations 300-400-level courses.

# Undergraduate Programs: First Nations

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## Elective Requirement

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

## 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 student 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. A maximum of two courses from the list of Approved Ancillary Courses for a Major in First Nations Studies can be used to fulfill the requirements of the First Nations minor.

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.

## First Nations Diploma Programs

A Diploma allows a student who has completed a Certificate to build on that qualification. After completing a Certificate, a Diploma will require another 30 credit hours (for a total of 60 credit hours) with a minimum of 15 credit hours being in upper division courses. A maximum of 30 credit hours from other institutions may be applied to a Diploma.

## Aboriginal Health Sciences

The Diploma in Aboriginal Health Sciences offers a multidisciplinary program allowing individuals to pursue their interest in Aboriginal Health Science through a concentrated program of courses on Aboriginal Health and Health Science subjects. Individuals working with Aboriginal communities in a health related field or desiring to pursue a degree in the health sciences with a concentration on Aboriginal health will be especially interested in this program.

The Diploma in Aboriginal Health Sciences allows individuals to receive a credential after 62 credit hours of study. The Diploma especially complements a major in First Nations Studies, Anthropology, Environmental Studies, Community Health, and Psychology. Students desiring to complete a degree after completion of the Diploma are strongly encouraged to speak with the relevant program Academic Advisor.

The diploma program is based on existing undergraduate courses with the addition of four new courses (Aboriginal Medicines II-Administering and Ethics, Aboriginal Health Management, Aboriginal Health and Chronic Illness, and Aboriginal Healing Practices).

## Diploma Requirements

Successful completion of the Certificate in Aboriginal Health Sciences:

BIOL 102-4	Introductory Biology II
HHSC 102-3	Introductory to Health Sciences II - Rural and Aboriginal Issues
PSYC 102-3	Psychology and Human Problems
PSYC 215-3	Research Design and Methodology in Psychology I
FNST 281-3	Aboriginal Medicines II-Administering and Ethics
FNST 302-3	First Nations Health and Healing
FNST 304-3	First Nations Environmental Philosophy and Knowledge
FNST 315-3	Aboriginal Health Management
FNST 316-3	Aboriginal Health and Chronic Illness
FNST 317-3	Aboriginal Healing Practices

## First Nations Language

The Diploma in First Nations Language offers a program that allows individuals to pursue their interests in First Nations language through a concentrated program of courses on a particular language.

This diploma program is directed towards individuals who may not wish to commit to a full majors program in First Nations Studies, with the associated requirements of a Bachelor's degree. Persons of First Nations descent and people who are working in the area of aboriginal education will be especially interested in this shorter term program. The diploma program enhances public access to a university education with a course of study that allows flexibility in scheduling individual study programs, establishes a progression mechanism, and provides a short term exit or the option of continuing into other programs, including the Bachelor program.

The diploma program is based on existing undergraduate courses with the addition of two additional levels of language courses (level 5 and 6) and two specific Advanced Immersion First Nations Language courses, which may be delivered through language mentoring.

## Diploma Requirements

Successful completion of 10 courses (30 credit hours):

Six credit hours (two courses) of First Nations Language courses  
Three credit hours (one course) of Introduction to Linguistics  
Nine credit hours (three courses) in the structure of First Nations Languages  
Six credit hours (two courses) of First Nations Language Mentoring/Advanced Immersion  
Six credit hours (two courses) in First Nations Studies

## First Nations 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 undergraduate student advisor prior to starting this program.

## Certificate Requirements

ENPL 104-3	Introduction to Planning
ENPL 204-3	Principles of Practices of Planning
FNST 100-3	The Aboriginal Peoples of Canada
FNST 304-3	First Nations Environmental Philosophy and Knowledge
FNST 249-3	Aboriginal Resource Planning
GEOG 205-3	Cartography and Geomatics

Any First Nations Culture Level 1 course or any First Nations Language Level 1 course

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:

COMM 100-3	Introduction to Canadian Business
GEOG 202-3	Economic Geography
NRES 100-3	Communication in Natural Resource

## Aboriginal Health Sciences

The Certificate in Aboriginal Health Sciences offers a multidisciplinary program allowing individuals to pursue their interest in Aboriginal Health Science through a concentrated program of courses on Aboriginal Health and Health Science subjects.

The Certificate requires completion of 10 courses (31 credit hours). Individuals working with Aboriginal communities in a health related field or desiring to pursue a degree in the health sciences with a concentration on Aboriginal health will be especially interested in this program.

The Certificate in Aboriginal Health Sciences allows individuals to receive a credential after 31 credit hours of study. The Certificate especially complements a major in First Nations Studies, Anthropology, Environmental Studies, Community Health, and Psychology. Students desiring to complete a degree after the Certificate are strongly encouraged to speak with the relevant program academic advisor.

Students must establish their course of study with approval from the Chair of First Nations Studies.

# Undergraduate Programs: First Nations

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## Certificate Requirements

BIOL 110-3	Introductory Ecology
CHEM 110-3	Chemistry of Everyday Life
	or CHEM 100-3 General Chemistry I
FNST 100-3	The Aboriginal Peoples of Canada
HHSC 101-3	Introduction to Health Sciences I: Issues and Controversies
PHYS 115-4	General Introduction to Physics
PSYC 101-3	Psychology as a Science
FNST 200-3	Methods and Perspectives in First Nations Studies
FNST 280-3	Aboriginal Medicines I-Harvesting and Preservation
FNST 282-3	Aboriginal Health Philosophy
MATH 115-3	Pre-Calculus

## First Nations Language

The Certificate in First Nations Language consists of 10 courses (30 credit hours) and offers a program that allows individuals to pursue an interest in First Nations language through a concentrated program of courses on a particular language.

This certificate program is directed towards individuals who may not wish to commit to a full majors program in First Nations Studies, with the associated requirements of a Bachelor's degree. Persons of First Nations descent and people who are working in the area of aboriginal education will be especially interested in this shorter term program. The certificate program enhances public access to a university education with a course of study that allows flexibility in scheduling individual study programs, establishes a progression mechanism, and provides a short term exit or the option of continuing into other programs, including the Bachelor's degree program.

Credits earned in the certificate program can be applied to the major or minor in First Nations Studies, subject to the requirements of those First Nations Studies programs.

Students must establish their course of study with approval from the Chair of First Nations Studies.

## Certificate Requirements

Five courses (15 credit hours) of study in a First Nations language of Northern BC, including one immersion course.

Two courses (six credit hours) of introductory First Nations Studies, including courses on culture and issues.

Two courses (six credit hours) of English.

One course (three credit hours) of Linguistics of First Nations languages.

## 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 or any First Nations Language Level 1 course.



## 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

Any First Nations Culture Level 1 course or any First Nations Language Level 1 course.

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 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.

## Undergraduate Programs: First Nations

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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.

### 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 The Aboriginal Peoples of Canada  
FNST 203-3 Introduction to Traditional Environmental Knowledge  
FNST 304-3 First Nations Environmental Philosophy and Knowledge

Any First Nations Culture Level 1 course or any First Nations Language Level 1 course.

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  
ENSC 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 120-1 General Chemistry Lab I  
CHEM 101-3 General Chemistry II  
and/or CHEM 121-1 General Chemistry Lab II  
ENSC 201-3 Introduction to Atmospheric Science  
or optional course

### 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  
or Optional Course (except ENSC 201-2)

\*Note: Applications for exemption from NREM 100-2 must be made within the first year of study in any Natural Resource Management major.

### Physics Stream

MATH 115-3 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  
ENPL 104-3 Introduction to Planning  
GEOG 100-3 Environments and People  
ENSC 201-3 Introduction to Atmospheric Science  
GEOG 200-3 Geography of BC

## Geography (BA and BSc Programs)

Gail Fondahl, Associate Professor, and Program Chair  
Kevin Hall, Professor  
Greg Halseth, Professor, and Canada Research Chair, Rural and Small Town Studies  
Neil Hanlon, Associate Professor  
Ellen Petticrew, Associate Professor and FRBC Chair in Landscape Ecology  
Debra Straussfogel, Associate Professor  
Roger Wheate, Associate Professor/GIS Coordinator  
Brian Menounos, Assistant Professor  
Catherine Nolin, Assistant Professor  
Sarah Boon, Adjunct Professor  
Donald Manson, Adjunct Professor  
James Randall, Adjunct Professor  
J. Kent Sedgwick, Adjunct Professor  
Deborah Thien, Adjunct Professor  
Ping Bai, Senior Lab Instructor (GIS)  
Scott Emmons, Senior Lab Instructor (GIS)  
Christine Jackson, Senior Lab Instructor

Website: <http://www.unbc.ca/geography>

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, 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 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.

## Geography Program (BA)

### 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 19 Geography courses (57 credit hours). Of these courses, 10 must be upper division. Elective credit hours must be taken to ensure completion of 120 credit hours, and must include at least 21 elective credit hours at the 300 or 400 level, in any subject.

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

# Undergraduate Programs: Geography

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## Program Requirements

### Lower Division Requirement

#### 100 Level

GEOG 100-3 Environments and People  
GEOG 101-3 Human Geography

#### 200 Level

GEOG 200-3 Geography of BC  
GEOG 202-3 Economic Geography  
GEOG 203-3 Geography of Canada  
or GEOG 207-3 Historical Geography of Canada  
GEOG 204-3 Introduction to GIS for the Social Sciences  
GEOG 205-3 Cartography and Geomatics  
GEOG 206-3 Social Geography  
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

ENPL 301-3 Sustainable Communities: Structure and Sociology  
GEOG 301-3 Cultural Geography  
GEOG 305-3 Political Geography  
GEOG 309-3 Geographies of Migration and Settlement

Three of:

GEOG 300-3 Geographic Information Systems  
GEOG 302-3 Geography of Russia  
GEOG 303-3 Recreational Geography  
GEOG 306-3 Geography of International Development  
GEOG 308-3 Introduction to Medical Geography  
GEOG 333-3 Geography Field School

#### 400 Level

ENPL 419-3 Social Research Methods  
or ORTM 410-3 Research Methods and Analysis  
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  
GEOG 424-3 Social Geography of Northern Communities

Three of:

GEOG 401-3 Resource Geography  
GEOG 402-3 Geography of the Circumpolar North  
GEOG 413-3 Advanced GIS  
GEOG 422-3 Geography of the World Economy  
GEOG 426-3 Geographies of Culture, Rights and Power  
GEOG 428-3 Advanced Medical Geography  
GEOG 432-3 Remote Sensing  
GEOG 457-3 Advanced Remote Sensing  
GEOG 498 (1-3) Special Topics  
GEOG 499 (3-6) Independent Studies

## Elective Requirement

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours, of which 21 credit hours in any subject must be at the 300 or 400 level.

## Major in Public Administration and Community Development

The Public Administration and Community Development major gives students the skills to function within a range of groups, organizations, and offices. The graduate is able to interact with appropriate professionals, receive their input and reports, and collate a wide range of information and material in service of their group/organization/office. Skills in analysis and synthesis are complemented by an ability to work cooperatively and effectively, and an ability to communicate clearly through written, oral, and graphic mediums.

The Public Administration and Community Development major requires completion of 120 credit hours, 48 of which must be at the upper division level. At the 1st and 2nd year level (lower division level), students must take the 7 required courses and a minimum of 1 course from each of the 7 focus categories. At the 3rd and 4th year level (upper division level), students must take the 4 required courses and a minimum of 1 course from each of the 7 focus categories. To complete the 120 credit hours, students must take 45 credit hours of electives, of which 18 credit hours must be at the upper division level.

It is possible for students to organize their course choices (focus categories and electives) to achieve a 'specialization' of course work. A specialization will require 24 credit hours of courses (8 courses) from one of the specialization lists:

- Specialization in Local Public Administration
- Specialization in Aboriginal Community Development
- Specialization in Planning

## Program Requirements

### Lower Division Requirements

COMM 100-3 Introduction to Canadian Business  
ECON 100-3 Microeconomics  
ECON 101-3 Macroeconomics  
ENPL 104-3 Introduction to Planning  
FNST 100-3 Aboriginal Peoples of Canada  
GEOG 101-3 Human Geography  
POLS 100-3 Contemporary Political Issues

Select ONE course from each Focus area below:

# Undergraduate Programs: Geography

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## Community Focus:

GEOG 206-3 Social Geography

## Public Administration Focus:

ECON 110-3 Introduction to Health Economics and Policy

POLS 251-3 Local Services and Public Policy

POLS 260-3 Politics of Public Finance

## Governance Focus:

POLS 200-3 Canadian Government and Politics

POLS 250-3 Law and Municipal Government

## First Nations Focus:

ENPL 208-3 First Nations Community and Environmental Planning

FNST 215-3 Issues in External Relations for Contemporary First Nations Peoples

FNST 216-3 Issues in Internal Organization for Contemporary First Nations Peoples

FNST 249-3 Aboriginal Resource Planning

POLS 220-3 Canadian Law and Aboriginal People

## Methods Focus:

ECON 205-3 Statistics for the Social and Management Sciences  
or MATH 242-3 Statistics for the Social and Health Sciences

ENPL 204-3 Principles and Practices of Planning

ENPL 206-3 Planning Analysis and Techniques

FNST 200-3 Methods and Perspectives in First Nations Studies

FNST 203-3 Introduction to Traditional Environmental Knowledge

GEOG 204-3 Introduction to GIS for the Social Sciences

GEOG 205-3 Cartography and Geomatics

## Economic Focus:

COMM 230-3 Organizational Behaviour

ECON 203-3 Canadian Economic History

GEOG 202-3 Economic Geography

ORTM 200-3 Sustainable Resource Recreation and Tourism

## General Focus:

ANTH 101-3 People and Cultures

ARTS 102-3 Research Writing

COMM 240-3 Introduction to Marketing

POLS 290-3 Research and Writing in Political Science

ORTM 100-3 Leisure in Life

## Upper Division Requirements

ENPL 313-3 Rural Community Economic Development

POLS 302-3 Canadian Public Administration

POLS 332-3 Community Development

GEOG 424-3 Social Geography of Northern Communities

Select ONE course from each Focus area below:

## Community Focus:

ANTH 316-3 The Social Theory and Structure of Contemporary Canadian Society

COMM 302-3 Entrepreneurship

ENPL 301-3 Sustainable Communities: Structure and Sociology

GEOG 309-3 Geographies of Migration & Settlement

ORTM 407-3 Recreation, Tourism, and Communities

SOCW 437-3 Social Work with Groups and Communities

## Public Administration Focus:

ENPL 304-3 Mediation, Negotiation, Public Participation

POLS 340-3 First Nations Self-Government and Administration

POLS 403-3 Social and Health Policy and Administration

SOCW 435-3 Community Social Policy

## Governance Focus:

ANTH 410-3 Theory of Nation and State

GEOG 305-3 Political Geography

POLS 316-3 Community Government and Politics

POLS 320-3 Canadian Politics and Policy

POLS 333-3 Politics and Government of BC

## First Nations Focus:

ANTH 404-3 Comparative Study of Indigenous Peoples of the World

ENPL 409-3 Advanced First Nations Community and Environment Planning

FNST 304-3 First Nations Environmental Philosophy and Knowledge

GEOG 403-3 Aboriginal Geography

NREM 303-3 First Nations Approaches to Resource Management

ORTM 306-3 Indigenous Tourism and Recreation

POLS 415-3 Comparative Northern Development

SOCW 455-3 First Nations Governance and Social Policy

## Methods Focus:

ENPL 419-3 Social Research Methods

FNST 300-3 Research Methods in First Nations Studies

ORTM 410-3 Research Methods and Analysis

## Economic Focus:

COMM 303-3 Introduction to International Business

ECON 305-3 Environmental Economics

ECON 330-3 Resource Economics

ECON 401-3 Global Economy

ECON 407-3 The Economy of Northern BC

GEOG 401-3 Resource Geography

GEOG 422-3 Geography of the World Economy

## General Focus:

COMM 332-3 Business and Professional Ethics

COMM 340-3 Marketing Communications

COMM 342-3 Services Marketing

ENVS 414-3 Environmental and Professional Ethics

FNST 440-3-6 Internship in First Nations Studies

FNST 498-3 Special Topics in First Nations Studies

GEOG 308-3 Introduction to Medical Geography

POLS 317-3 Ethics

# Undergraduate Programs: Geography

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## Specializations

It is possible for students to organize their course choices (focus categories and electives) to achieve a 'specialization' of course work. For the PACD major, completion of a specialization requires 24 credit hours of courses (8 courses) from one of the specialization lists:

- Specialization in Local Public Administration
- Specialization in Aboriginal Community Development
- Specialization in Planning

### Specialization in Local Public Administration

\* Students choosing this specialization should be aware that UNBC also offers a Public Administration Certificate through the Political Science program, as well as a First Nations Public Administration Certificate through the First Nations Studies program.

#### Lower Division (1st and 2nd year) course choices

COMM 100-3	Introduction to Canadian Business
COMM 230-3	Organizational Behaviour
POLS 220-3	Canadian Law and Aboriginal People
POLS 250-3	Law and Municipal Government
POLS 251-3	Local Services and Public Policy
POLS 260-3	Politics of Public Finance
POLS 290-3	Research and Writing in Political Science

#### Upper Division (3rd and 4th year) course choices

POLS 316-3	Community Government and Politics
POLS 317-3	Ethics
POLS 320-3	Canadian Politics and Policy
POLS 333-3	Politics and Government of BC
POLS 335-3	Community Politics
POLS 340-3	First Nations Self-Government and Administration
POLS 403-3	Social and Health Policy and Administration

### Specialization in Aboriginal Community Development

#### Lower Division (1st and 2nd year) course choices

ENPL 208-3	First Nations Community and Environmental Planning
FNST 200-3	Methods and Perspectives in First Nations Studies
FNST 203-3	Introduction to Traditional Environmental Knowledge
FNST 215-3	Issues in External Relations for Contemporary First Nations Peoples
FNST 216-3	Issues in Internal Organization for Contemporary First Nations Peoples
FNST 249-3	Aboriginal Resource Planning
POLS 220-3	Canadian Law and Aboriginal People

#### Upper Division (3rd and 4th year) course choices

ANTH 404-3	Comparative Study of Indigenous Peoples of the World
COMM 302-3	Entrepreneurship
ENPL 409-3	Advanced First Nations Community and Environment Planning
FNST 300-3	Research Methods in First Nations Studies
FNST 304-3	First Nations Environmental Philosophy and Knowledge

FNST 416-3	International Perspective
FNST 440-3-6	Internship in First Nations Studies
FNST 498-3	Special Topics in First Nations Studies
GEOG 403-3	Aboriginal Geography
NREM 303-3	First Nations Approaches to Resource Management
ORTM 306-3	Indigenous Tourism and Recreation
POLS 340-3	First Nations Self-Government and Administration

### Specialization in Planning

\* It should be noted that the 'Specialization in Planning' does not lead to an accredited planning degree. A professional accredited Canadian Institute of Planner degree is through the School of Environmental Planning. Refer to the calendar for further information.

#### Required courses

ENPL 104-3	Introduction to Planning
ENPL 204-3	Principles and Practices of Planning
ENPL 301-3	Sustainable Communities: Structure and Sociology
ENPL 304-3	Mediation, Negotiation, Public Participation

#### Complete four of the following

ENPL 206-3	Planning Analysis and Techniques
ENPL 208-3	First Nations Community and Environmental Planning
ENPL 313-3	Rural Community Economic Development
ENPL 409-3	Advanced First Nations Community and Environment Planning
ENPL 419-3	Social Research Methods

#### Elective Requirement

45 elective credits in any subject as necessary to ensure completion of a minimum of 120 credit hours (at least 18 of these elective hours must be at the 300 or 400 level).

## Geography Program (BSc)

### Major in Geography

Undergraduate students are required to take 13 Geography courses (39 credit hours). Of these courses, nine must be upper division. Students are required to take a minimum of 21 credit hours of Electives Science Courses, of which 15 credit hours must be upper division. Additional electives, as necessary, are required to ensure the completion of a minimum of 125 credit hours.

The minimum requirement for completion of a Bachelor of Science with a major in Geography is 125 credit hours.

## 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 120-1	General Chemistry Lab I
CHEM 121-1	General Chemistry Lab II
GEOG 101-3	Human Geography
	or GEOG 202-3 Economic Geography
MATH 152-3	Calculus for Non-majors
PHYS 100-4	Introduction to Physics I

#### 200 Level

BIOL 201-3	Ecology
ENSC 201-3	Introduction to Atmospheric Science
FSTY 205-3	Introduction to Soil Science
GEOG 200-3	Geography of BC
GEOG 205-3	Cartography and Geomatics
GEOG 210-3	Geomorphology

### Upper Division Requirement

#### 300 Level

GEOG 300-3	Geographic Information Systems
GEOG 310-3	Hydrology
GEOG 311-3	Concepts in Geomorphology
MATH 342-3	Biostatistics

Two of:

ENSC 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 305-3	Political Geography
GEOG 306-3	Geography of International Development

#### 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	Advanced Elements in Geomorphology
GEOG 412-3	Geomorphology of Cold Regions
GEOG 413-3	Advanced GIS
GEOG 414-3	Weathering Processes
GEOG 432-3	Remote Sensing

## 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.

### Elective Science Courses

#### Biology:

All courses allowed, except BIOL 350-3 Ethnobotany

#### Chemistry:

All courses allowed

#### Computer Science:

All courses allowed

#### Environmental Studies:

The following courses are allowed:

ENPL 402-3	Terrain Assessment
ENSC 202-3	Aquatic Systems
ENSC 312-3	Boundary-layer Meteorology
ENSC 406-3	Environmental Modelling
ENSC 408-3	Storms
ENSC 412-3	Air Pollution
ENSC 418-3	Environmental Measurement and Analysis

#### Forestry:

All courses allowed

#### Geography:

The following courses are allowed:

GEOG 210-3	Geomorphology
GEOG 300-3	Geographic Information Systems
GEOG 310-3	Hydrology
GEOG 311-3	Concepts in Geomorphology
GEOG 405-3	Fluvial Geomorphology
GEOG 411-3	Advanced Elements in Geomorphology
GEOG 412-3	Geomorphology of Cold Regions
GEOG 413-3	Advanced GIS
GEOG 414-3	Weathering Processes
GEOG 432-3	Remote Sensing

#### Math:

All courses allowed

#### Natural Resources Management:

The following courses are allowed:

NREM 203-3	Resource Inventories and Measurement
NREM 204-3	Introduction to Wildlife and Fisheries

#### Physics:

All courses allowed

## General Electives

Elective credit hours as necessary to ensure completion of a minimum of 125 credit hours.

# Undergraduate Programs: Geography

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## Joint Major in Anthropology/ Geography (BA)

See Calendar entry under Anthropology

## 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 Geomorphology.

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

### Requirements

GEOG 210-3 Geomorphology  
GEOG 311-3 Concepts in Geomorphology

Four of:

GEOG 310-3 Hydrology  
GEOG 405-3 Fluvial Geomorphology  
GEOG 411-3 Advanced Elements in Geomorphology  
GEOG 412-3 Geomorphology of Cold Regions  
GEOG 300-3 Geographic Information Systems  
or GEOG 413-3 Advanced GIS  
or GEOG 432-3 Remote Sensing  
GEOG 414-3 Weathering Processes  
FSTY 205-3 Introduction to Soil Science  
or FSTY 425-3 Soil Formation and Classification

## Minor in GIS (Geographic Information Systems)

The aim of the minor is to provide a level of competence in a combination of courses in Geographic Information Systems and Computer Science technologies. This grouping is designed to serve both majors in NRES programs and in Computer Science. Combining these selected courses in Geography and Computer Science will provide a level of proficiency in geographic data processing and analysis suitable for careers in the GIS industry.

The three required Geography courses are the core of the minor, along with four additional courses selected from a list of GIS courses and Computer Science courses, of which CPSC 110-3 (Introduction to

Computer Systems and Programming), CPSC 126-3 (Introduction to Computer Systems), and CPSC 350-3 (Computer Graphics) are aimed at those not majoring in Computer Science.

A maximum of two courses (six credit hours) at or above the 200 level used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in GIS.

The minimum requirement for the completion of the minor in GIS is 21 credit hours.

### Requirements

GEOG 205-3 Cartography and Geomatics  
GEOG 300-3 Geographic Information Systems  
GEOG 432-3 Remote Sensing

Four (from the courses listed below, to include at least one in GEOG/  
ENPL and two in CPSC

GEOG 204-3 GIS for the Social Sciences  
ENPL 303-3 Spatial Planning with GIS  
GEOG 413-3 Advanced GIS  
GEOG 457-3 Advanced Remote Sensing  
CPSC 100-4 Computer Programming I  
or CPSC 110-3 Introduction to Computer Systems  
and Programming  
CPSC 126-3 Introduction to Computer Systems  
CPSC 270-3 Human Interface Design  
CPSC 350-3 Computer Graphics  
CPSC 422-3 Database Systems  
CPSC 440-3 Computer Networks

## 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.

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 Physical 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 Introduction to Soil Science  
ENSC 201-3 Introduction to Atmospheric Science

Three of\*:

ENSC 312-3 Boundary-layer Meteorology  
or ENSC 408-3 Storms  
GEOG 310-3 Hydrology  
or GEOG 405-3 Fluvial Geomorphology  
GEOG 311-3 Concepts in Geomorphology  
GEOG 411-3 Advanced Elements in Geomorphology  
GEOG 412-3 Geomorphology of Cold Regions  
GEOG 300-3 Geographic 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. 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; and;
3. the chance to explore at least one facet of Human Geography of special interest to the student at the 400 level.

A maximum of two courses (six credit hours) at or above the 200 level used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Human Geography.

The minimum requirement for completion of a minor in Human Geography is 24 credit hours, including twelve upper division credit hours.

## Requirements

GEOG 100-3 Environments and People  
GEOG 101-3 Human Geography  
GEOG 202-3 Economic Geography  
GEOG 206-3 Social Geography

A minimum of two, maximum of three of:

GEOG 301-3 Cultural Geography  
GEOG 305-3 Political Geography  
GEOG 306-3 Geography of International Development  
GEOG 308-3 Introduction to Medical Geography  
GEOG 309-3 Geographies of Migration and Settlement

A minimum of one, maximum of two of:

GEOG 401-3 Resource Geography  
GEOG 403-3 Aboriginal Geography  
GEOG 422-3 Geography of the World Economy  
GEOG 424-3 Social Geography of Northern Communities  
GEOG 426-3 Geographies of Culture, Rights and Power  
GEOG 428-3 Advanced Medical Geography

## Minor in Global Environmental Change

See Calendar entry under Environmental Studies

# Undergraduate Programs: Health Sciences

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## Health Sciences (BHSc Program)

- Biomedical Studies
- Community and Population Health - Aboriginal and Rural Health
- Community and Population Health - Environmental Health

Ken Prkachin, Professor and Acting Program Chair

Henry Harder, Associate Professor

Laurie Chan, Professor and BC Leadership Chair

Shankar Chowdhury, Assistant Professor

Josée Lavoie, Assistant Professor

Jill Grant, Assistant Professor

Shannon Wagner, Assistant Professor

Barbara Low, Adjunct Professor

Arlene Ward, Adjunct Professor

Erin Beveridge, Senior Lab Instructor

Anne Sommerfeld, Senior Lab Instructor

Community Health Additional Faculty:

David Snadden, Full Professor

Ken Prkachin, Professor

Peter MacMillan, Associate Professor

Martha MacLeod, Associate Professor

Anne George, Adjunct Professor

Neil Hanlon, Adjunct Professor

Henry Harder, Adjunct Professor

Dawn Hemingway, Adjunct Professor

Karen Kelly, Adjunct Professor

Han Li, Adjunct Professor

Jean Shoveller, Adjunct Professor

Donald Voaklander, Adjunct Professor

Website: <http://www.unbc.ca/bhsc/>

The Bachelor of Health Sciences degree is a four-year program consisting of a range of courses that relate directly to the science of health, in the recognition that health is a complex entity defying a simple explanation or a single disciplinary perspective. The courses identified within the Program offer learning opportunities from a variety of disciplines, including the Life Sciences, Social Sciences, Behavioural Sciences, and Ethics and Law, to enable students to develop a body of knowledge and understanding relating to the dimensions of Health. Some of these courses are considered to be 'core' and therefore central to the basic understandings of health, while others offer the student opportunities to learn about a specific health perspective that is focused on one of three Majors:

- i. Biomedical Studies,
- ii. Community and population Health-Environmental Health, or,
- iii. Community and Population Health-Aboriginal and Rural Health.

Graduation from either of the Community and Population Health Majors enables students to embark on careers or graduate programs related to health care management, administration, information systems or public health.

Students pursuing the Biomedical Studies Major are required to complete a set of courses that enables them to be better prepared for application to professional programs, for example, in medicine, nursing, pharmacy, occupational therapy, dentistry, speech pathology or physiotherapy. This major provides a foundational knowledge base that is focused more on the natural and physical sciences, thus enabling those students to be better prepared to undertake health-related research or to work in scientific laboratories.

All students graduating with the Bachelor of Health Sciences degree will have developed critical analytical skills, life-long learning skills, and the ability to work from the evidence of best practice.

## General Requirements

To be awarded the BHSc degree, students are required to complete 120 credit hours of University-level courses. This consists of 57 credit hours of common requirements for all BHSc students, with the remainder coming from the following Majors, and electives, as follows: Biomedical Studies: 48 credit hours of courses from the Biomedical Studies major and 15 elective credit hours.

Community and Population Health-Aboriginal and Rural Health: 33 credit hours from the common course requirements for both Community and Population Health Majors, as well as a minimum of 12 credit hours (6 specified, 6 with some choice) in Aboriginal and Rural Health-related courses, thus adding to a focus of knowledge and understanding of this specific subject material. The remaining 18 credit hours will be obtained from elective credit hours.

Community and Population Health-Environmental Health: 33 credit hours from the common course requirements for both Community and Population Health Majors, as well as a minimum of 12 credit hours (6 specified, 6 with some choice) in Environmental Health-related courses, thus adding to a focus of knowledge and understanding of this specific subject material. The remaining 18 credit hours will be obtained from elective credit hours.

## Admission Requirement

Admission to the Bachelor of Health Sciences program is based on academic qualifications and available space. At the time of application, students must specify whether they intend to pursue either the Biomedical Studies Major or one of the two Community and Population Health Majors. Priority admission is given to students who meet admission criteria and apply by the deadline of March 1. Applications received after the deadline may be reviewed based on available space in the program. Self-identified Aboriginal applicants who meet or exceed the minimum requirements for admission to the program are given priority for up to twenty percent (20%) of the first-year seats for the Bachelor of Health Sciences program.

Applicants from BC and Yukon secondary schools must:

- Meet the basic UNBC admission requirements, and
- Have completed Principles of Mathematics 11, English 12 and other approved Grade 12 courses as specified in the Admissions sections of the Undergraduate Calendar.

Other Applicants must:

- Meet UNBC admission requirements,
- and Have completed the equivalent of Principles of Mathematics 11, English 12, and other approved Grade 12 courses as specified in the Admissions section of the Undergraduate Calendar with a minimum of "C+" (65%) in each course.

Students interested in specializing in the Biomedical Studies Major are strongly encouraged to take: Principles of Mathematics 12, Chemistry 12 and Biology 12 before entering the Program.

## Common Requirements: All Majors

In order to meet the graduation requirements for a BHSc all students must successfully complete the following common requirements consisting of 57 credit hours. It is recommended that students take the courses listed below in the year of study indicated:

### 1st year-15 credits

FNST 100-3	The Aboriginal Peoples of Canada
HHSC 101-3	Introduction to Health Science I: Issues and Controversies
HHSC 103-3	Health Care Systems
PSYC 101-3	Psychology as a Science
PSYC 102-3	Psychology and Human Problems

### 2nd year-15 credits

HHSC 111-3	Anatomy and Physiology I
HHSC 112-3	Anatomy and Physiology II
HHSC 201-3	Ethics and Law in Health Care
HHSC 311-3	Nutrition
MATH 242-3	Statistics for Social and Health Sciences
	or ECON 205-3 Statistics for the Social and Management Sciences

### 3rd year-15 credits

FNST 302-3	First Nations Health and Healing
HHSC 350-3	Introduction to Epidemiology
HHSC 351-3	Research Design and Methods for Health Sciences
PSYC 309-3	Introduction to Health Psychology
PSYC 345-3	Lifespan Development
	or SOCW 421-3 Human Growth and Development

### 4th year-12 credits

HHSC 451-3	Health Sciences Research Project
HHSC 471-3	Aboriginal Health and Chronic Disease
POLS 403-3	Social and Health Policy and Administration
PSYC 409-3	Advanced Health Psychology

## Major in Biomedical Studies

Students pursuing a major in Biomedical Studies are required to complete the following 48 credit hours of courses. It is recommended that students take the courses listed below in the year of study indicated:

### 1st year-22 credits

BIOL 101-4	Introductory Biology I
BIOL 102-4	Introductory Biology II
CHEM 100-3	General Chemistry I
CHEM 120-1	General Chemistry Lab I
CHEM 101-3	General Chemistry II
CHEM 121-1	General Chemistry Lab II

Two of:

ENGL 100-3	Introduction to Literary Structures
ENGL 102-3	Introduction to Poetry
ENGL 103-3	Introduction to Fiction
ENGL 104-3	Introduction to Drama and/or Film

### 2nd year-17 credits

BIOL 203-3	Microbiology
BIOL 210-3	Genetics
CHEM 201-3	Organic Chemistry I
CHEM 250-1	Organic Chemistry Lab I
CHEM 203-3	Organic Chemistry II
CHEM 251-1	Organic Chemistry Lab II
CHEM 204-3	Introductory Biochemistry

### 3rd and 4th years-9 credits

BIOL 311-3	Cell and Molecular Biology
CHEM 306-3	Intermediary Metabolism
CHEM 307-3	Proteins

Note: Students intending to apply to professional health degree programs are encouraged to take as electives the following courses: PHYS 110-4, PHYS 111-4, MATH 100-3 and MATH 101-3.

## Majors in Community and Population Health

Students pursuing a major in either Community and Population Health-Aboriginal and Rural Health, or Community and Population Health-Environmental Health are required to complete the following 33 credit hours. It is recommended that students take the courses listed below in the year of study indicated:

### 1st year-9 credits

CHEM 110-3	Chemistry of Everyday Life
	or CHEM 100-3 General Chemistry I
ECON 110-3	Introduction to Health Economics and Policy

## Undergraduate Programs: Health Sciences

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One of:

- ENGL 100-3 Introduction to Literary Structures
- ENGL 102-3 Introduction to Poetry
- ENGL 103-3 Introduction to Fiction
- ENGL 104-3 Introduction to Drama and/or Film

### 2nd year-6 credits

- HHSC 102-3 Introduction to Health Science II: Rural and Aboriginal Issues
- HHSC 110-3 Basic Microbiology  
or BIOL 203-3 Microbiology

### 3rd year-12 credits

- HHSC 330-3 Health Information Management Technology
- HHSC 370-3 Occupational Health
- NURS 301-3 Advanced Pathophysiology
- SOCW 444-3 Social Work Critical Issues in Aging

### 4th year-6 credits

- HHSC 421-3 Medical Geography
- NURS 402-3 Health Promotion

In addition to the 33 credit hours listed above, students pursuing a major in either Community and Population Health-Aboriginal and Rural Health, or Community and Population Health-Environmental Health, are required to complete 12 credit hours focused in either Aboriginal and Rural Health or Environmental Health, specific to their major, as listed below.

## Major in Community and Population Health-Aboriginal and Rural Health

Students must take:

- ENPL 313-3 Rural Community Economic Development
- FNST 315-3 Aboriginal Health Management

Students must take an additional 6 credit hours from the following list (please note that some of these courses may require additional prerequisites):

- ANTH 200-3 Biological Anthropology
- ANTH 201-3 Medical Anthropology
- ECON 410-3 Health Economics
- PSYC 417-3 Behaviour Modification
- SOCW 440-3 Social Work and Mental Health
- SOCW 441-3 Social Work and Substance Abuse
- SOCW 443-3 Medical Social Work

## Major in Community and Population Health-Environmental Health

Students must take:

- ENPL 205-3 Environment and Society
- ENSC 308-3 Northern Contaminated Environments

Students must take an additional 6 credit hours from the following list (please note that some of these courses may require additional prerequisites):

- ECON 410-3 Health Economics
- ENPL 208-3 First Nations Community and Environmental Planning
- ENPL 304-3 Mediation, Negotiation and Public Participation
- ENVS 306-3 Human Ecology
- HIST 360-3 An Introduction to Environmental History
- INTS 470-3 International Environmental Policy
- NREM 306-3 Society, Policy and Administration  
or POLS 334-3 Society, Policy and Administration of Natural Resources

## Elective Requirement for all BHSC Majors

Electives at any level sufficient to ensure completion of a minimum 120 credit hours.

## History (BA Program)

Marianne Ainley, Professor Emerita

Jonathan Swainger, Associate Professor, and Program Chair  
Charles Jago, Professor  
Gordon Martel, Professor  
William Morrison, Professor  
Theodore Binnema, Associate Professor  
Stephanie Cousineau, Assistant Professor  
Aileen Espiritu, Assistant Professor  
Jacqueline Holler, Assistant Professor  
Sharon Wall, Assistant Professor  
Mary-Ellen Kelm, Adjunct Professor  
Neil Lettinga, Adjunct Professor  
Rhonda Semple, Adjunct Professor

Website: <http://www.unbc.ca/history>

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 complete 54 credit hours of History courses, at least 30 credit hours of which must be upper division courses. Students may not take more than 57 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.

## Program Requirements

### Lower Division Requirement

#### 100 and 200 Level

HIST 190-3 The West and the World to 1660  
HIST 191-3 The West and the World since 1660

Twelve additional credit hours in 200 level History courses.

### Upper Division Requirement

#### 300 and 400 Level

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

Eighteen credit hours of History at the 300 level courses, in addition to HIST 300-3.

Nine credit hours of History at the 400 level.

## Subject Requirement

Six additional credit hours of History at any level to ensure completion of 54 credit hours of History in total.

## Elective Requirement

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

## 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 190-3 (The West and the World to 1660), HIST 191-3 (The West and the World Since 1660); 12 credit hours in 200 level history courses; HIST 300-3 (Historiography: The Nature of the Historical Discipline), and have attained a cumulative GPA of no less than 3.33 upon completion of second year (i.e., 60 credit hours). Having fulfilled the requirements of admission to the History honours degree program, students must then complete 18 credit hours in 300 level history courses; 15 credit hours in 400 level history courses; and 12 credit hours in four additional history courses designed for honours students, for a total of 66 credit hours as a component of an undergraduate degree totalling 120 credit hours. These honours history courses are designed to be taken in the sequence indicated, which can be altered only under exceptional circumstances and with the permission of the Program Chair:

HIST 501-3	Honours Directed Readings (September Term of third year)
HIST 500-3	Historiography: Contemporary Theories and Methods (January Term of third year)
HIST 505-6	Honours Thesis (September & January Term of fourth year)

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

The minimum requirement for completion of a BA Honours - History is 120 credit hours.

## Undergraduate Programs: History

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### Joint Major in English/History

See Calendar entry under English

### Joint Major in History/Political Science

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

#### Program Requirements

##### Lower Division Requirement

HIST 190-3	The West and the World to 1660
HIST 191-3	The West and the World since 1660
POLS 100-3	Contemporary Political Issues
ECON 205-3	Statistics for Social and Management Sciences or MATH 242-3 Statistics for Social and Health Sciences
POLS 200-3	Canadian Government and Politics
POLS 202-3	Comparative Government and Politics
POLS 270-3	Political Philosophy: Plato to Locke
POLS 290-3	Research and Writing for Political Science

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

##### Upper Division Requirement

HIST 300-3	Historiography: The Nature of the Historical Discipline
POLS 303-3	Democracy and Dictatorship
POLS 320-3	Canadian Politics and Policy
POLS 370-3	Political Philosophy: Locke to Marx

Nine credit hours in Political Science at the 300 or 400 level.

Eighteen credit hours in History at the 300 or 400 level.

#### Elective Requirement

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

### Joint Major in History/Women's Studies

The minimum requirement for completion of a Bachelor of Arts with a Joint Major in History and Women's Studies is 120 credit hours.

#### Program Requirements

##### Lower Division Requirement

HIST 190-3	The West and the World to 1660
HIST 191-3	The West and the World since 1660
WMST 100-3	Introduction to Women's Studies

Six additional credit hours of History at the 100 or 200 level.

Six additional credit hours of Women's Studies at the 100 or 200 level.

##### Upper Division Requirement

WMST 302-3	Women and the Contemporary World
WMST 307-3	Qualitative Research Methods
HIST 300-3	Historiography: The Nature of the Historical Discipline
HIST 309-3	Women in Canada
WMST 311-3/	
HIST 311-3	History of Feminism
WMST 312-3/	
HIST 312-3	An Introduction to the History of Gender
HIST 453 (3-6)	Topics in History of Gender
HIST 454 (3-6)	Topics in Women's History

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

#### Additional Requirement

Twelve additional credit hours selected from the following:

WMST 303-3	Lesbian and Bisexual Lives
WMST 304-3	Contemporary Women's Writings in an International Frame
WMST 309-3	Gender and Film
WMST 306-3/	
FNST 306-3	Indigenous Women: Perspectives
WMST 401-3	Cultural Studies: Race, Gender, Representation
WMST 410-3	Feminist Political Philosophy
WMST 411-3	Contemporary Feminist Theories
WMST 413-(3-6)/	
FNST 413-(3-6)	Topics in Aboriginal Women's Studies
WMST 420-3/	
ENGL 410-3	Contemporary Women's Literature
WMST 498 (3-6)	Selected Topics
ANTH 401-3	Anthropological Perspectives on Inequality
ANTH 406-3	Feminist Perspectives in Anthropology
COMM 333-3	Women in Organizations
ECON 301-3	Women and the Economy

# Undergraduate Programs: History, International Studies

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ENVS 309-3	Women and Environmental Studies
FNST 407-3	Race, Class, Gender, Power
INTS 308-3	Gender and International Studies
NURS 412-3	Women and Health
POLS 313-3	Women and Politics
SOCW 433-3	Women in the Human Services
SOCW 449-3	Gender and Sexuality

## Elective Requirement

Electives at any level in any subject sufficient 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 24 credit hours in History, of which 18 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.

## Program Requirements

HIST 190-3	The West and the World to 1660
HIST 191-3	The West and the World since 1660
HIST 300-3	Historiography: The Nature of the Historical Discipline

Fifteen additional credit hours of 300 or 400 level History courses.

## International Studies (BA Program)

Ken Wilkening, Associate Professor, and Program Chair  
Don Munton, Professor  
James Randall, Professor  
Heather Smith, Associate Professor  
Caroline Clarke, Assistant Professor  
Nicholas Tyrras, Assistant Professor  
Heather Myers, Adjunct Professor  
Ami Hagiwara, Lecturer  
Hiroe Wood, Lecturer

Website: <http://www.unbc.ca/internationalstudies>

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 54 credit hours of International Studies coursework as part of their overall program in order to graduate with a major in International Studies. 12 credit hours are required in foreign language study, and 33 credit hours are required 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.

## 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 202-3 Contemporary United States
	or INTS 203-3 Contemporary Japan
	or INTS 204-3 Contemporary China
	or INTS 240-3 Contemporary Circumpolar North
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

# Undergraduate Programs: International Studies

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## 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 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

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

## 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 120 credit hours:

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

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

The minimum requirement for completion of a BA Honours - International Studies is 120 credit hours.

## Joint Major in International Studies/Political Science

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



## 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  
or MATH 242-3 Statistics for the Social and Health 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 270-3 Political Philosophy: Plato to Locke  
POLS 290-3 Research and Writing for Political Science

One of:

INTS 200-3 Contemporary Russia  
INTS 202-3 Contemporary United States  
INTS 203-3 Contemporary Japan  
INTS 204-3 Contemporary China  
INTS 240-3 Contemporary Circumpolar North

### Upper Division Requirement

INTS 310-3 Origins and Evolution of International Studies

Nine credit hours of 300 or 400 level International Studies.

POLS 370-3 Political Philosophy: Locke to Marx  
POLS 303-3 Democracy and Dictatorship

Two of:

POLS 305-3 United States Politics  
POLS 311-3 Russian Politics and Society  
POLS 314-3 European Politics and Government  
POLS 405-3 Topics in Society and Democracy  
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

## Elective Requirement

Electives at any level in any subject sufficient 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 or 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.

# Undergraduate Programs: Mathematics

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## Mathematics (BSc Program)

Jennifer Hyndman, Associate Professor, and Program Chair  
Iliya Bluskov, Professor  
Sam Walters, Professor  
Lee Keener, Professor  
Pranesh Kumar, Professor  
Kevin Keen, Associate Professor  
Patrick Montgomery, Associate Professor  
Wolfram Bentz, Assistant Professor  
Cristian Ivanescu, Adjunct Professor  
Anamaria Savu, Adjunct Professor

Website: <http://www.unbc.ca/math>

The Mathematics Program provides undergraduate and postgraduate instruction and training in pure mathematics, applied mathematics, and statistics. A Bachelor of Science degree is available in Mathematics, as well as joint BSc degrees in Mathematics and Physics, Economics and Mathematics, Chemistry and Mathematics, and Computer Science and Mathematics.

In addition, there are two minors in Mathematics. A graduate degree (MSc—Mathematical, Computer, and Physical Sciences) is also supported by the mathematics program. Students interested in graduate studies are advised to consult the UNBC Graduate Calendar for further information.

The Mathematics Program offers Mathematics and Statistics service courses to students in the biological sciences, health sciences, management, economics, social sciences, and other areas.

Some sections of introductory calculus are enhanced through the use of computer software which provides exceptional computational power and high-quality graphical display. Introductory statistics courses teach the use of statistical analysis software to analyze data.

An important feature of the Mathematics degree 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.

For more information please visit our website at [www.unbc.ca/math](http://www.unbc.ca/math).

## 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.

MATH 342-3 (Biostatistics) may not be used for credit towards any Mathematics major, minor, or joint major.

MATH 150-3 (Finite Mathematics for Business and Economics) may not be used for credit towards any Mathematics major or joint major.

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

## Program Requirements

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

## Literacy Requirement

One of:

ENGL 170-3 Writing and Communication Skills  
ENGL 270-3 Expository Writing

## Lower Division Requirement

### 100 Level

CPSC 100-4 Computer Programming I  
CPSC 141-3 Discrete Computational Mathematics  
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 Introduction to Complex Analysis  
MATH 220-3 Linear Algebra  
MATH 224-3 Foundations of Modern Mathematics  
MATH 226-3 Advanced Linear Algebra  
MATH 230-3 Linear Differential Equations and Boundary Value Problems

## Recommended

CPSC 101-4 Computer Programming II  
CPSC 142-3 Discrete Computational Mathematics II

## General Science Requirement

Two of:

BIOL 101-4 Introductory Biology I  
BIOL 102-4 Introductory Biology II  
CHEM 100-3 General Chemistry I  
and CHEM 120-1 General Chemistry Lab I  
CHEM 101-3 General Chemistry II  
and CHEM 121-1 General Chemistry Lab II  
PHYS 100-4 Introduction to Physics I  
or PHYS 110-4\* Introductory Physics I:  
PHYS 111-4\* Introductory Physics II: Waves and Electricity

\*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 302-3	Theory of Metric Spaces
MATH 320-3	Survey of Algebra
MATH 321-3	Topology
MATH 336-3	Intermediate Differential Equations or MATH 335-3 Numerical Analysis I
MATH 371-3	Probability and Statistics for Scientists and Engineers
MATH 372-3	Mathematical Statistics

### 400 Level

Twelve credit hours of 400 level Mathematics courses.

## Elective Requirement

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours.

## Joint Major in Chemistry/ Mathematics

See Calendar entry under Chemistry

## Joint Major in Computer Science/ Mathematics

See Calendar entry under Computer Science

## 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.

MATH 342-3 (Biostatistics) may not be used for credit towards any Mathematics major, minor, or joint major.

MATH 150-3 (Finite Mathematics for Business and Economics) may not be used for credit towards any Mathematics major or joint major.

PHYS 307-3 (Selected Topics in Environmental Physics) may not be used as Physics credit toward any Physics major, minor, or joint major.

## Program Requirements

### Lower Division Requirement

CPSC 100-4	Computer Programming I
MATH 100-3	Calculus I or MATH 105-3 Enriched Calculus
MATH 101-3	Calculus II
MATH 200-3	Calculus III
MATH 201-3	Introduction to Complex Analysis

MATH 220-3	Linear Algebra
MATH 226-3	Advanced Linear Algebra
MATH 230-3	Linear Differential Equations and Boundary Value Problems
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 335-3	Numerical Analysis I
MATH 336-3	Intermediate Differential Equations
MATH 371-3	Probability and Statistics for Scientists and Engineers

\*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 400-3	Quantum Mechanics II
PHYS 407-3	Statistical Mechanics

\*Six credit hours of 300 or 400 level Physics.

Three of these 12 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

Elective credit hours as necessary to ensure completion of a minimum of 125 credit hours.

## Joint Major in Economics/ Mathematics

See Calendar entry under Economics

## Minor in Mathematics

The minor in Mathematics requires students to take 27 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.

MATH 342-3 (Biostatistics) may not be used for credit towards the 12 credit hours of upper division Mathematics course requirements for the Mathematics minor.

## Requirements

### 100 Level

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

### 200 Level

MATH 200-3 Calculus III  
MATH 220-3 Linear Algebra

Twelve additional credit hours in Mathematics at the 300 or 400 level.

## Natural Resources Management (BSc Program)

Kathy Lewis, Professor and Program Chair  
Keith Egger, Professor  
Oscar Garcia, Professor, and Endowed Chair, Forest Growth and Yield  
Staffan Lindgren, Professor  
William McGill, Professor  
Annie Booth, Associate Professor  
Arthur Fredeen, Associate Professor  
Michael Gillingham, Associate Professor  
Scott Green, Associate Professor  
Chris Hawkins, Associate Professor, and Endowed Chair, Mixed Wood Ecology and Management  
Hugues Massicotte, Associate Professor  
Chris Opio, Associate Professor  
Ken Otter, Associate Professor  
Katherine Parker, Associate Professor, and Ian McTaggart Cowan  
Muskwa Kechika Research Professor  
Paul Sanborn, Associate Professor  
Mark Shrimpton, Associate Professor  
John Shultis, Associate Professor  
Pamela Wright, Associate Professor  
Cecilia Alstrom-Rapaport, Assistant Professor  
Anne Hardy, Assistant Professor  
Dezene Huber, Assistant Professor, and Canada Research Chair, Forest Entomology and Chemical Ecology  
Chris Johnson, Assistant Professor  
Lisa Poirier, Assistant Professor  
Brian Aukema, Adjunct Professor  
Bryan Bogdanski, Adjunct Professor  
Philip Burton, Adjunct Professor  
Alan Carroll, Adjunct Professor  
Craig Delong, Adjunct Professor  
Martin Geertsema, Adjunct Professor  
Susan Granger, Adjunct Professor  
Brad Hawkes, Adjunct Professor  
Doug Heard, Adjunct Professor  
Michael Jull, Adjunct Professor  
Gregory O'Neill, Adjunct Professor  
Susan Stevenson, Adjunct Professor  
Kimberly Wallin, Adjunct Professor  
Pat Maher, Lecturer  
Saphida Migabo, Senior Lab Instructor  
Roy Rea, Senior Lab Instructor  
Doug Thompson, Senior Lab Instructor

Website: <http://www.unbc.ca/forestry>

Website: <http://www.unbc.ca/ortm>

Website: <http://www.unbc.ca/wildlifefisheries>

The Natural Resources Management program offers students an integrated resource management approach with specialization through majors in Forest Ecology and Management, Wildlife and Fisheries, and Outdoor Recreation and Conservation.

# Undergraduate Programs: Natural Resources Management

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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 Forest Ecology and Management major is accredited by the Canadian Forestry Accreditation Board and meets certification requirements for the BC Forest Professionals. Government, industry and private experts assist in course presentations. The University has two research forests available to students in this program.

## Major in Forest Ecology and Management

Undergraduate students are required to take a total of 96 credit hours of program core courses in addition to a qualified minor as outlined below.

The minimum requirement for completion of a Bachelor of Science with a major in Forest Ecology and Management is 123 credit hours.

### 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 120-1	General Chemistry Lab I
CHEM 121-1	General Chemistry Lab II
COMM 100-3	Introduction to Canadian Business
ECON 100-3	Microeconomics
MATH 152-3	Calculus for Non-majors
NREM 100-3*	Field Skills
NREM 101-3	Introduction to Natural Resources Management and Conservation
NRES 100-3	Communications in Natural Resources and Environmental Studies

*\*Note: Applications for exemption from NREM 100-3 must be made within the first year of study in any Natural Resource Management major.*

##### 200 Level

BIOL 201-3	Ecology
COMM 230-3	Organizational Behaviour
ENSC 201-3	Introduction to Atmospheric Science
FSTY 201-3	Forest Plant Systems
FSTY 205-3	Introduction to Soil Science
FSTY 207-1	Ecological Classification
FSTY 209-4	Forest Biology and Silvics
GEOG 205-3	Cartography and Geomatics
or GEOG 300-3	Geographic Information Systems
GEOG 210-3	Geomorphology
MATH 240-3	Basic Statistics
NREM 203-3	Resource Inventories and Measurements

#### Upper Division Requirement

##### 300 Level

FSTY 305-4	Silviculture I
FSTY 307-3	Disturbance Ecology and Forest Health
FSTY 317-1	Forest Disturbance Agents
FSTY 310-3	Forest Economics
or NREM 306-3	Society, Policy and Administration
NREM 303-3	First Nations' Approaches to Resource Management
NREM 333-3	Field Applications in Resource Management

##### 400 Level

FSTY 408-3	Forest Practices and Management
NREM 400-4	Natural Resources Planning
NREM 411-3	Environmental and Professional Ethics
NRES 421-1	Professional Writing
and NRES 422-2	Undergraduate Report
or NRES 430-6	Undergraduate Thesis

### Minor requirement associated with Forest Ecology and Management major

Forest Ecology and Management students are required to complete a minor as part of their degree. The eligible minors will allow students to gain a solid foundation in numerous specialized areas of forest management.

Eligible minors include:

- Biology and Conservation
- Earth Sciences
- Environmental Planning
- Environmental Science
- Environmental Studies
- Forest Recreation
- General Business
- Geographic Information Systems (GIS)
- Global Environmental Change
- Natural Resources Planning and Operations
- Social Dimensions of Natural Resources Management

Minors have different credit hours requirements, but for all minors 12 credit hours must be at the upper division (i.e., 300 or 400 level). Students must ensure that all prerequisite courses have been completed for elective choices in each minor. Beyond the specific minor requirements, students must complete elective credit hours as necessary to ensure completion of a minimum of 123 credit hours.

# Undergraduate Programs: Natural Resources Management

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## BSc Honours—Forest Ecology and Management

The Honours in Forest Ecology and Management offers students a higher level of education and research experience for proceeding to post graduate studies. Honours students are required to complete the degree requirements for the BSc Natural Resources Management (Forest Ecology and Management Major). In addition, required hours of electives credits must be at the 300 or 400 level and each student must complete a 6 credit hour research thesis under the supervision of a faculty member.

Admission to the honours program will take place after the 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. Maintenance of a CGPA of 3.33 is required to remain in the honours program.

Elective credit hours are determined to be the number of credit hours needed to ensure completion of a minimum of 123 credit hours; not including thesis.

## Major in Outdoor Recreation and Conservation

This BSc Major in Outdoor Recreation and Conservation focuses on the natural and social dimensions of outdoor recreation planning and management, using an integrated resource management framework. Emphasis in this major is placed on planning and managing environmentally and culturally sensitive recreation opportunities in natural environment settings.

Northern British Columbia provides an unparalleled setting for learning, teaching, and researching the various aspects of outdoor recreation and conservation management. British Columbia has a large land base and a range of natural environments that support a vast array of dispersed and concentrated outdoor recreation opportunities. The program examines the components of planning and managing recreation opportunities through the study of such subject areas as ecology, integrated resource management, planning, protected areas management, tourism management, environmental studies and geography (e.g., GIS).

Undergraduate students are required to take 12 Outdoor Recreation and Tourism Management courses (36 credit hours). Of these, 9 courses are upper division.

The minimum requirement for the completion of a Bachelor of Science with a major in Outdoor Recreation and Conservation is 120 credit hours.

## Program Requirement

### 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
ECON 100-3	Microeconomics
	or FNST 100-3 The Aboriginal Peoples of Canada
	or GEOG 100-3 Environments and People
	or POLS 100-3 Contemporary Political Issues
NREM 100-2*	Natural Resources Management I
ORTM 100-3	Leisure in Life

Students with little or no computer experience are strongly encouraged to take CPSC 150-3 or CPSC 110-3.

*\*Note: Applications for exemption from NREM 100-2 must be made within the first year of study in any Natural Resource Management major.*

#### 200 Level

BIOL 201-3	Ecology
ECON 205-3	Statistics for the Social and Health Sciences
	or MATH 242-3 Statistics for Social and Management Sciences
GEOG 204-3	Introduction to GIS for the Social Sciences
	or GEOG 205-3 Cartography and Geomatics
NREM 203-3	Resource Inventories and Measurements
	or NREM 204-3 Introduction to Wildlife and Fisheries
	or GEOG 210-3 Geomorphology
NREM 210-4	Integrated Resource Management
ORTM 200-3	Sustainable Recreation and Tourism
ORTM 204-3	Visitor Behaviour

### Upper Division Requirement

#### 300 Level

ENPL 305-3	Environmental Impact Assessment
NREM 303-3	First Nations' Approaches to Resource Management
	or FNST 304-3 First Nations Environmental Philosophy and Knowledge
NREM 306-3	Society, Policy and Administration
ORTM 300-3	Recreation and Tourism Impacts
ORTM 301-3	Environmental Interpretation
ORTM 305-3	Protected Area Planning and Management
ORTM 333-3	Field Experience
One of:	
	BIOL 301-3 Systematic Botany
	or FSTY 201-4 Plant Systems
	BIOL 307-3 Ichthyology and Herpetology
	BIOL 308-3 Ornithology and Mammalogy
	GEOG 300-3 Geographic Information Systems

# Undergraduate Programs: Natural Resources Management

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## 400 Level

NREM 400-4	Natural Resources Planning
NREM 411-3	Environmental and Professional Ethics
ORTM 400-3	Recreation and Tourism Ecology, Management and Design
ORTM 410-3	Research Methods and Analysis
ORTM 412-3	Issues and Trends in Recreation and Tourism

Six credit hours from the following:

ORTM 306-3	Indigenous Tourism and Recreation
ORTM 403-3	International Dimensions in Recreation and Tourism
ORTM 407-3	Recreation, Tourism and Communities
ORTM 408-3	The Psychology of Recreation and Tourism
ORTM 413-3	Polar Tourism and Management
ORTM 440 (2-6)	Internship
ORTM 498 (1-3)	Special Topics
ORTM 499 (1-6)	Independent Study

One of:

BIOL 404-3	Plant Ecology
BIOL 412-3	Wildlife Ecology
BIOL 420-3	Animal Behaviour
NREM 410-3	Watershed Management
GEOG 432-3	Remote Sensing

## Elective Requirement

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours.

## Major in Wildlife and Fisheries

Undergraduate students are required to take 21 Biology and Natural Resources Management courses (65-66 credit hours). Of these, 14 courses must be upper division.

The minimum requirement for completion of a Bachelor of Science with a major in Wildlife and Fisheries is 123 credit hours.

## 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 120-1	General Chemistry Lab I
CHEM 121-1	General Chemistry Lab II
MATH 152-3	Calculus for Non-majors
NREM 100-3*	Field Skills
NREM 101-3	Introduction to Natural Resources Management and Conservation

NRES 100-3	Communications in Natural Resources and Environmental Studies
	or ENGL 170-3 Writing and Communication Skills
PHYS 115-4	General Introduction to Physics
	or PHYS 100-4 Introduction to Physics I

*\*Note: Applications for exemption from NREM 100-3 must be made within the first year of study in any Natural Resource Management major.*

#### 200 Level

BIOL 201-3	Ecology
BIOL 210-3	Genetics
CHEM 220-3	Organic and Biochemistry
FSTY 201-3	Forest Plant Systems
	or BIOL 301-3 Systematic Botany
FSTY 205-3	Introduction to Soil Science
FSTY 207-1	Terrestrial Ecological Classification
MATH 240-3	Basic Statistics
NREM 204-3	Introduction to Wildlife and Fisheries

Two of:

BIOL 202-3	Invertebrate Zoology
BIOL 204-3	Plant Biology
NREM 210-4	Integrated Resource Management
GEOG 210-3	Geomorphology

### Upper Division Requirement

#### 300 Level

BIOL 302-3	Limnology
BIOL 307-3	Ichthyology and Herpetology
BIOL 308-3	Ornithology and Mammalogy
BIOL 315-3	Animal Diseases and Parasites
BIOL 325-3	Ecological Analyses
ENPL 305-3	Environmental Impact Assessment
	or ENVS 326-3 Natural Resources, Environmental Issues and Public Engagement
	or NREM 411-3 Environmental and Professional Ethics
GEOG 300-3	Geographic Information Systems
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
	or NREM 333-3 Field Camp

# Undergraduate Programs: Natural Resources Management

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## Electives

Elective credit hours as necessary to ensure completion of a minimum of 123 credit hours.

## Nature-Based Tourism Management (BA Program)

Gail Fondahl, Associate Professor, and Program Chair

John Shultis, Associate Professor

Pam Wright, Associate Professor

Anne Hardy, Assistant Professor

Raymond Chipenivic, Adjunct Professor

Greg Ringer, Adjunct Professor

Patrick Maher, Lecturer

Website: [www.unbc.ca/ortm](http://www.unbc.ca/ortm)

Tourism has become the largest industry and employer in the world. One of the most important and fastest growing sectors in tourism is nature-based tourism, which comprises attractions, activities and experiences involving interaction with natural and cultural resources (e.g., ecotourism, adventure tourism, indigenous tourism). This degree examines the various components of the nature-based tourism system, giving emphasis to the entrepreneurial perspectives and sustainability issues in the industry. Students also choose to specialize in other content areas and disciplines closely related to nature-based tourism, such as tourism marketing, indigenous tourism, geography, international studies, environmental planning, political science, and natural resource management.

## Major in Nature-Based Tourism Management

Undergraduate students are required to complete a minimum of thirteen (13) Outdoor Recreation & Tourism Management courses (39 credit hours).

The minimum requirement for completion of a Bachelor of Arts with a major in Nature-Based Tourism Management is 122 credit hours.

## Program Requirements

### Lower Division Requirement

#### 100 Level

BIOL 110-3 Introductory Ecology

COMM 100-3 Introduction to Canadian Business

ECON 100-3 Microeconomics

ENPL 104-3 Introduction to Planning

GEOG 100-3 Environments and People

or GEOG 101-3 Human Geography

or FNST 100-3 The Aboriginal Peoples of Canada

or POLS 100-3 Contemporary Political Issues

NREM 100-2\* Natural Resources Management I

ORTM 100-3 Leisure in Life

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)

*\*Note: Applications for exemption from NREM 100-2 must be made within the first year of study in any Natural Resource Management major.*

### 200 Level

COMM 230-3 Organizational Behaviour

COMM 240-3 Introduction to Marketing

ECON 205-3 Statistics for Social and Management Sciences  
or MATH 242-3 Statistics for Social and Health Sciences

ORTM 200-3 Sustainable Recreation and Tourism

ORTM 202-3 Ecotourism and Adventure Tourism

ORTM 204-3 Visitor Behaviour

### Two of:

ENPL 204-3 Principles and Practices of Planning

ENPL 205-3 Environment and Society

ENPL 208-3 First Nations Community and Environmental Planning

FNST 215-3 Issues in External Relations for Contemporary Indigenous Peoples

GEOG 200-3 Geography of BC

INTS 307-3 Global Resources

GEOG 204-3 Introduction to GIS for the Social Sciences  
or GEOG 205-3 Cartography and Geomatics

INTS 205-3 Introduction to International Studies

NREM 210-4 Integrated Resource Management

## Upper Division Requirement

### 300 Level

COMM 302-3 Entrepreneurship

COMM 342-3 Services Marketing

COMM 343-3 Consumer Behaviour

FNST 304-3 First Nations Environmental Philosophy and Knowledge

or NREM 303-3 First Nations' Approaches to Resource Management

ORTM 300-3 Recreation and Tourism Impacts

ORTM 301-3 Environmental Interpretation

ORTM 306-3 Indigenous Tourism and Recreation

ORTM 333-3 Field Experience

### One of:

ENPL 305-3 Environmental Impact Assessment

ENPL 313-3 Rural Community Economic Development

GEOG 300-3 Geographic Information Systems

INTS 307-3 Global Resources

NREM 306-3 Society, Policy and Administration

POLS 332-3 Community Development



# Undergraduate Programs: Natural Resources Management

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## 400 Level

ORTM 410-3 Research Methods and Analysis  
ORTM 412-3 Issues and Trends in Recreation and Tourism

COMM 342-3 Services Marketing  
COMM 343-3 Consumer Behaviour  
ORTM 408-3 The Psychology of Recreation and Tourism

Nine credit hours from:

ORTM 305-3 Protected Areas Planning and Management  
ORTM 400-3 Recreation and Tourism Ecology, Management and Design  
ORTM 403-3 International Dimensions in Recreation and Tourism  
ORTM 407-3 Recreation, Tourism and Communities  
ORTM 408-3 The Psychology of Recreation and Tourism  
ORTM 414-3 Polar Tourism and Recreation  
ORTM 440 (2-6) Internship  
ORTM 498 (1-3) Special Topics  
ORTM 499 (1-6) Independent Study

At least two of:

COMM 441-3 International Marketing  
COMM 442-3 Marketing Strategy  
COMM 449-3 Advanced Topics in Marketing

Two of:

COMM 441-3 International Marketing  
COMM 442-3 Marketing Strategy  
COMM 449-3 Advanced Topics in Marketing  
ENPL 409-3 Advanced First Nations Community and Environmental Planning  
ENPL 410-3 Land Use Planning  
GEOG 401-3 Resource Geography  
GEOG 403-3 Aboriginal Geography  
INTS 407-3 International Environmental Policy  
NREM 400-3 Natural Resources Planning  
NREM 411-3 Environmental and Professional Ethics  
POLS 401-3 Resource Politics  
POLS 434-3 Resource Communities in Transition

## Indigenous/Cultural Tourism Stream

FNST 100-3 The Aboriginal Peoples of Canada  
FNST 215-3 Issues in External Relations for Contemporary Indigenous Peoples  
ENPL 208-3 First Nations Community and Environmental Planning  
NREM 303-3 First Nations' Approaches to Resource Management  
ORTM 306-3 Indigenous Tourism and Recreation  
POLS 332-3 Community Development  
ENPL 409-3 Advanced First Nations Community and Environmental Planning  
GEOG 403-3 Aboriginal Geography  
ORTM 403-3 International Dimensions in Recreation and Tourism  
ORTM 407-3 Recreation, Tourism and Communities  
ORTM 414-3 Polar Tourism and Recreation

## Major in NRM—Outdoor Recreation and Conservation

See Calendar entry under Natural Resources Management

## Course Prerequisites

Students should review all proposed course selections in advance to make sure course prerequisites are taken where needed.

## Elective Requirement

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

## Potential Nature-Based Tourism Streams

The following streams in the Nature-Based Tourism degree provide students with the opportunity to focus course selections, towards possible career options. Students are not required to follow these particular streams.

## Tourism Marketing Stream

COMM 100-3 Introduction to Canadian Business  
ECON 100-3 Microeconomics  
COMM 230-3 Organizational Behaviour  
COMM 240-3 Introduction to Marketing  
COMM 302-3 Entrepreneurship

## Minor in Earth Sciences

The Earth Sciences minor provides depth in areas of earth science that support natural resource management. Students are required to complete 18 credit hours (12 of which must be 300 or 400 level) chosen from the following lists, with at least one course from each of the first three groups. A maximum of two courses (6 credit hours) used to fulfill the requirements for a major, or another minor, may also be used to fulfill requirements for this minor. It is the student's responsibility to ensure that they have the required prerequisites.

## Hydrology

ENSC 202-3 Introduction to Aquatic Systems  
ENSC 451-3 Groundwater Hydrology  
ENSC 454-3 Snow and Ice  
GEOG 310-3 Hydrology or NREM 410-3 Watershed Management

# Undergraduate Programs: Natural Resources Management

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## Geomorphology

GEOG 311-3	Concepts in Geomorphology
GEOG 405-3	Fluvial Geomorphology
GEOG 411-3	Advanced Elements in Geomorphology
GEOG 412-3	Geomorphology of Cold Regions
GEOG 414-3	Weathering Processes

## Soil Science

FSTY 315-3	Forest Soil Management
FSTY 425-3	Soil Formation and Classification
FSTY 455-3	Biogeochemical Processes in Soil Systems

## Other

ENSC 425-3	Global Change Science
GEOG 413-3	Advanced GIS
GEOG 432-3	Remote Sensing
GEOG 457-3	Advanced Remote Sensing

## Minor in Forest Recreation

The minor in Forest Recreation provides natural resource management students and others with an opportunity to gain a foundation and expertise in the specialized aspects of forest recreation while pursuing another major. The minor requires students to take a total of 18 credits. The minor has three required courses basic to the field of Forest Recreation (nine credits) and a set of elective courses (minimum of nine credits).

### Required Courses

ORTM 100-3	Leisure in Life
ORTM 200-3	Sustainable Recreation and Tourism
ORTM 300-3	Recreation and Tourism Impacts

### Elective Courses

Nine credit hours from the following list with a minimum of three credit hours at the 400 level:

ORTM 301-3	Environmental Interpretation
ORTM 305-3	Protected Area Planning and Management
ORTM 306-3	Indigenous Tourism and Recreation
ORTM 333-3	Field Experience
ORTM 400-3	Recreation and Tourism Ecology, Management and Design
ORTM 407-3	Recreation, Tourism and Communities
ORTM 410-3	Research Methods and Analysis
ORTM 412-3	Issues and Trends in Outdoor Recreation and Tourism
ORTM 440-(2-6)	Internship
ORTM 498-(1-3)	Special Topics
ORTM 499-(1-6)	Independent Study

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.

## Minor in Outdoor Recreation and Tourism

The minor in Outdoor Recreation and Tourism Management is designed to afford students an opportunity to gain a foundational set of knowledge in tourism and recreation while pursuing another major. The minor requires students to take a total of 18 credits. The minor has three required courses basic to the field of Outdoor Recreation and Tourism Management (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.

### Required Courses

ORTM 100-3 Leisure in Life

One of:

ORTM 200-3	Sustainable Recreation and Tourism
ORTM 202-3	Ecotourism and Adventure Tourism
ORTM 204-3	Visitor Behavior

ORTM 300-3 Recreation and Tourism Impacts

### Elective Courses

Nine credit hours from the following list with a minimum of three credit hours at the 400 level:

ORTM 301-3	Environmental Interpretation
ORTM 305-3	Protected Area Planning and Management
ORTM 306-3	Indigenous Tourism and Recreation
ORTM 403-3	International Dimensions in Recreation and Tourism
ORTM 407-3	Recreation, Tourism and Communities
ORTM 408-3	The Psychology of Recreation and Tourism
ORTM 412-3	Issues and Trends in Recreation and Tourism
ORTM 414-3	Polar Tourism and Recreation

## Northern Studies (BA Program)

Gary Wilson, Assistant Professor, Political Science, and Northern Studies Coordinator

Website: <http://www.unbc.ca/northernstudies>

## Major in Northern Studies

Northern Studies is an interdisciplinary field of particular importance to the University of Northern British Columbia, and of growing relevance globally. Circumpolar environmental processes are becoming recognized as key indicators of global change; circumpolar indigenous peoples are gaining a greater voice both nationally and internationally; circumpolar political arrangements are illustrating new forms of regional governance. For these and other reasons, we need to develop better understanding of northern conditions and issues.

Students are required to complete one foundation course (3 credit hours); six core courses (18 credit hours) in three themes of: Peoples and Cultures, Lands and Environments, and Contemporary Issues; one course (3 credit hours) in Methodology; at least seven courses (21 credit hours) from one Advanced Emphasis (Autonomy and Self Government; Community Development; Northern Peoples and Environments; Northern Health; or Northern History and Development).

The remaining electives and prerequisites are open to design by the student, but 30 credit hours must be at the Upper Division level.

Note: Completion of a Bachelor of Arts with a major in Northern Studies graduation requires a minimum of 120 credit hours.

Block transfer of credit up to 60 credit hours towards the Northern Studies BA at UNBC may be given to students from Yukon College who have completed one of the following two year Northern Studies programs at Yukon College: Diploma of Northern Studies, General Studies; Diploma of Northern Studies, Native Studies; Diploma of Northern Studies, Outdoor and Environmental Studies.

## Program Requirements

### Foundation Course

NORS 101-3 Introduction to the Circumpolar North

### Core Courses

NORS 311-3 Lands and Environments of the Circumpolar North 1  
 NORS 312-3 Lands and Environments of the Circumpolar North 2  
 NORS 321-3 Peoples and Cultures of the Circumpolar World 1  
 NORS 322-3 Peoples and Cultures of the Circumpolar World 2  
 NORS 331-3 Contemporary Issues in the Circumpolar North 1  
 or INTS 340-3 The Circumpolar North in Global Perspective  
 NORS 332-3 Contemporary Issues in the Circumpolar North 2

Note: These courses may be available in face-to-face format, cross-listed with other UNBC courses, or through web-based courses, offered in conjunction with the University of the Arctic.

## Advanced Emphasis Stream

(at least twenty one credit hours to be taken from one):

### Stream 1 Autonomy and Self-Government

ECON 407-3 The Economy of Northern BC  
 FNST 215-3/  
 FNST 216-3 Issues in External Relations for Contemporary Indigenous Peoples  
 FNST 250-3/  
 POLS 220-3 Canadian Law and Aboriginal Peoples  
 INTS 377-3 Redefining Security  
 INTS 410-3 Environment and Development in the Circumpolar North  
 INTS 444-3 Russian Foreign Policy  
 POLS 340-3 First Nations Self-Government and Administration  
 POLS 412-3 Comparative Aboriginal State Relations  
 POLS 414-3 Comparative Federalism  
 POLS 415-3 Comparative Northern Development  
 POLS 472-3 Contemporary Theories of Political Community  
 WMST 306-3 Indigenous Women: Perspectives

### Stream 2 Community Development

ANTH 422 (3-6) Ethnographic Research Project  
 ECON 407-3 The Economy of Northern BC  
 GEOG 424-3 Social Geography of Northern Communities  
 POLS 316-3 Community Government and Politics  
 POLS 332-3 Community Development  
 POLS 335-3 Community Politics  
 POLS 401-3 Resource Politics  
 POLS 415-3 Comparative Northern Development  
 WMST 306-3 Indigenous Women: Perspectives

### Stream 3 Northern Peoples and Environments

ANTH 312-3 Human Adaptability  
 ANTH 320-3 Biology of Circumpolar Peoples  
 ANTH 407-3 Topics in British Columbia Ethnography  
 ANTH 409-3 Topics in British Columbia Archaeology  
 ANTH 422-3 Ethnographic Research Project  
 ANTH 451-3 Traditional Use Studies  
 ENGL 320-3 First Nations Literature  
 FNST 304-3 First Nations Environmental Philosophy and Knowledge  
 FNST 310-3/  
 FNST 311-3 Lisims Anadromous Summer and Fall Fisheries in Nisga'a Culture  
 GEOG 302-3 Geography of Russia  
 GEOG 403-3 Aboriginal Geography  
 GEOG 412-3 Geomorphology of Cold Regions  
 GEOG 424-3 Social Geography of Northern Communities  
 HIST 390-3 Aboriginal People in Canada  
 NREM 303-3 First Nations' Approaches to Resource Management  
 POLS 334-3 Society, Policy and Administration of Natural Resources  
 POLS 401-3 Resource Politics  
 POLS 434-3 Resource Communities in Transition

# Undergraduate Programs: Northern Studies

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## Stream 4 Northern Health

ANTH 206-3	Ethnography in Northern British Columbia
ANTH 320-3	Biology of Circumpolar Peoples
ANTH 422 (3-6)	Ethnographic Research Project
FNST 302-3	First Nations Health and Healing
NURS 101-3	The Art and Science of Nursing
NURS 205-	Introduction to First Nations Health
NURS 306-3	Introduction to Epidemiology
NURS 422-3	First Nations Health and Nursing
POLS 403-3	Social and Health Policy and Administration
SOCW 435-3	Community Social Policy
SOCW 437-3	Social Work With Groups and Communities
SOCW 438-3	Comparative Welfare Analysis

## Stream 5 Northern History and Development

ANTH 407-3	Topics in British Columbia Ethnography
ECON 407-3	The Economy of Northern BC
ENPL 305-3	Environmental Impact Assessment
FNST 249-3	Aboriginal Resources Planning
GEOG 302-3	Geography of Russia
HIST 301-3	The Canadian North
HIST 355-3	Russian Imperial History
HIST 356-3	Soviet History
HIST 357-3	Nordic History
HIST 405 (3-6)	Topics in the Canadian North
INTS 410-3	Environment and Development in the Circumpolar North
POLS 325-3	Canadian Politics and Identity
POLS 415-3	Comparative Northern Development
WMST 306-3	Indigenous Women: Perspectives

## Methodology

Three credit hours from one of the following:

ANTH 300-3	Methods in Social Anthropology
ANTH 421 (3-6)	Ethnographic Field Methods
ANTH 451-3	Traditional Use Studies
ECON 205-3	Statistics for the Social and Management Sciences
ENPL 305-3	Environmental Impact Assessment
ENPL 419-3	Social Research Methods
FNST 200-3	Methods and Perspectives in First Nations Studies
FNST 300-3	Research Methods in First Nations Studies
GEOG 204-3	Introduction to GIS for the Social Sciences
GEOG 205-3	Cartography and Geomatics
GEOG 333-3	Geography Field School
NURS 403-3	Introduction to Nursing Research
PHIL 200-3	Critical Thinking

Note: Students will be encouraged to participate in an optional semester at another university in the circumpolar north, through exchange agreements between UNBC and other circumpolar universities. This should be done in consultation with the NORS Coordinator.

## Elective Requirement

Other electives, at least 30 credit hours at the upper division level, 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, and of growing relevance globally. Many circumpolar issues are gaining importance, and there are important lessons that can be exchanged between circumpolar regions and other areas of the globe. Northern Studies can be an interesting and useful complement to students' other areas of study.

A minor is seven courses (21 credit hours), four courses (12 credit hours) of which must be at the upper division level. Students must take NORS 101-3 (Introduction to the Circumpolar North) and three courses (9 credit hours) from each of list A and B below. No more than two courses (6 credit hours) 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 Introduction to the Circumpolar North

### Course List A: The Circumpolar North

GEOG 402-3	Geography of the Circumpolar North
GEOG 412-3	Geomorphology of Cold Regions
HIST 354-3	The Circumpolar North
INST 410-3	Environment and Development in the Circumpolar North
POLS 415-3	Comparative Northern Development
NORS 311-3	Lands and Environments of the Circumpolar North 1
NORS 312-3	Lands and Environments of the Circumpolar North 2
NORS 321-3	Peoples and Cultures of the Circumpolar North 1
NORS 322-3	Peoples and Cultures of the Circumpolar North 2
or NORS 331-3	Contemporary Issues in the Circumpolar World 1
NORS 332-3	Contemporary Issues in the Circumpolar World 2

Any one of the First Nations courses on a relevant northern First Nation 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 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	Advanced Elements in Geomorphology
GEOG 424-3	Social Geography of Northern Communities
HIST 301-3	The Canadian North
HIST 405-(3-6)	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 (BScN Program)

- Northern Collaborative Baccalaureate Nursing Program
- Post-Diploma Baccalaureate Nursing Program
- Rural and Northern Nursing Certificate

Vincent Salyers, Associate Professor, and Program Chair  
Penelope Barrett, Associate Professor  
Martha MacLeod, Associate Professor  
Eileen Owen-Williams, Associate Professor  
Heather Correale, Assistant Professor  
Susan Johnson, Assistant Professor  
Amy Klepetar, Assistant Professor  
Lela Zimmer, Assistant Professor  
Marion Healy-Ogden, Adjunct Professor  
Rose Perrin, Adjunct Professor  
Jean Shenk, Instructor  
Clara Antoniazzi, Senior Lab Instructor  
Heather Ouellette, Senior Lab Instructor  
Karyn Smith, Senior Lab Instructor and Nursing Teaching Associate  
Ptryk Simon, Senior Lab Instructor  
Linda Williams, Senior Lab Instructor

Website: <http://www.unbc.ca/nursing>

## 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. Caring is a central and dominant feature of nursing.

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, the College of New Caledonia (CNC), and Northwest Community College (NWCC), providing entry into the nursing profession. The integrated program of studies leads to a Bachelor of Science in Nursing (BScN), awarded by UNBC. Graduates are eligible to write the Canadian Registered Nurse Examination and to apply for registration with the College of Registered Nurses of British Columbia (CRNBC) 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 BScN.

# Undergraduate Programs: Nursing

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## Aims of the BScN Program

The goal of the BScN 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 the CRNBC Professional Standards for Registered Nurses and Nurse Practitioners
- NCBNP students will meet professional practice requirements as identified in the CRNBC Competencies in Context of Entry-level RN Practice in BC (2006)

## General Requirements

Nursing courses will normally be restricted to students admitted into the BScN program, unless otherwise specified in a course description. Not all courses in the Calendar are offered every semester or academic year. Admission to the BScN 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.

The admission criteria and general requirements set out in the Admissions section of this Calendar are applicable to this section.

## Student Professional Membership

NCBNP students are required to become student members of the CRNBC, the cost of which will be the responsibility of the student. In addition to membership benefits, this requirement will provide student malpractice insurance.

## Standards of Professional Conduct

In addition to all University and Program expectations, all students are expected to abide by professional standards as set forth in the CRNBC Professional Standards for Registered Nurses and Nurse Practitioners

and the Canadian Nurses Association (CNA) Code of Ethics for Registered Nurses (2002). Violation of professional standards may result in suspension or dismissal from the program or the educational institution.

## Criminal Records Search

Students will be required to undergo a criminal records search prior to being admitted. (Refer to Academic Regulation #19 in this Calendar).

## 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. Once accepted to the NCBNP, Certificate, or Post-Diploma programs, 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.
- record of immunization status. Current status for the following immunizations is strongly recommended: diphtheria, tetanus, poliomyelitis, measles, mumps, rubella, hepatitis B and varicella. A Mantoux test (PPD) for tuberculosis is also strongly recommended.
- Completed immunization forms for the NCBNP must be submitted to the Admissions Office at the institution the student is currently attending prior to March 31 in the first year of attendance. Students entering the Certificate or Post-Diploma BScN must complete and submit specified immunization forms prior to commencing a course with a clinical component. Failure to do so may result in the student not being allowed to practice in the clinical setting.
- documentation of CPR certification, level C, which must be maintained throughout the program. Proof of CPR certification must be submitted prior to commencement of classes.
- CPR must be recertified every two years regardless of expiry date on the card.

## 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 consolidating nursing practicum following both their fourth and sixth semesters of study in the program.

Attendance in each nursing practicum course is mandatory. Students may only miss clinical hours for approved reasons following prior consultation with their clinical instructor. Students who miss more than 10% of their total required practicum experience hours will be considered at risk for failure and may be required to withdraw from the course.

## Program Costs

Costs associated with study in the BScN 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, Quesnel, or Terrace. Provision for all travel, accommodation, and living expenses associated with required clinical practice is the sole responsibility of the student.

## 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 do not obtain the minimum passing grade, as defined under 'Qualification for Degree', in a required nursing course twice are required to withdraw from the program. A student who is required to withdraw from a required clinical course due to unsatisfactory performance will automatically be assigned a grade of F.

## Qualification for Degree

It is the responsibility of the student to ensure that his/her degree or certificate 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 all courses used for credit towards the degree or certificate
- obtain a minimum passing grade of 2.00 (C) in the following courses, or their equivalents, as applicable to the specific program:
  - all NURS courses, including NURS electives, with the exception of designated clinical practica nursing courses which require a passing grade of (P)
  - all HHSC courses
  - ANTH 101-3
  - MATH 242-3
  - POLS 403-3
- complete all requirements for the appropriate program as follows:
  - NCBNP BScN within eight years, starting with the first semester of registration in a NURS course in the NCBNP at UNBC or one of its collaborative partner institutions
  - Post-Diploma BScN within eight years, starting with the first semester of registration in a NURS course in the Post-Diploma BScN at UNBC
- Certificate program within six years, starting with the first semester of registration in a NURS course in the Certificate program at UNBC.

## Letter of Permission

Once admitted to the nursing program, students who want to take course work at other institutions for transfer credit towards the degree may require a Letter of Permission prior to registration in the course. Students should contact the Nursing Advisor at the institution they are currently attending for further information. (Refer to Academic Regulation #18 in this Calendar).

## 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

With prior approval by the Nursing Advisor at the institution the student is applying to or currently attending, and subject to course availability, undergraduate Nursing programs may be taken on a part-time basis; however, students may be required to enroll full-time during a portion of their program.

## Leave of Absence

Students wanting to take a Leave of Absence must apply, in writing, to the Nursing Advisor at the institution that the student is currently attending. Upon approval, students are eligible for up to a one year Leave of Absence. Students who do not apply for a Leave of Absence will be considered to be out-of-sequence and will lose their priority for registration.

## Withdrawal from the Nursing Program

Students who voluntarily withdraw from the Nursing program must notify, in writing, the Nursing Advisor at the institution that the student is currently attending. Where students fail to notify the Nursing Advisor, the Nursing Advisor will deem a student to have voluntarily withdrawn from the Nursing program where the student has not registered in Nursing courses in any of the last three semesters.

# Undergraduate Programs: Nursing

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## Northern Collaborative Baccalaureate Nursing Program

The Northern Collaborative Baccalaureate Nursing Program requires students to take at least 95 credit hours of Nursing courses. The minimum requirement for completion of a Bachelor of Science in Nursing is 134 credit hours.

### 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 BScN program will be evaluated at the request of the student, and applied at the time of initial registration in the program.

The total transfer credit awarded on the basis of acceptable course work completed at non-collaborative partner institutions may not exceed 60 credit hours. Nursing courses must have been completed within five years prior to admission to be eligible for transfer credit into the nursing program.

### Admission Requirements

Self-identified Aboriginal applicants who meet or exceed the minimum requirements for admission to the program will be given priority for up to twenty percent (20%) of the first-year seats for the Northern Collaborative Baccalaureate Nursing Program (NCBNP).

Admission is based on academic qualifications and available space. Priority admission will be given to students who meet admission criteria (see Admissions Section in this calendar) 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 11 with a minimum C+ (65%) in each course

Other applicants must:

- meet UNBC admission requirements, and
- have completed the equivalent of Principles of Math 11, English 12, Biology 12, Chemistry 11 with a minimum of C+ (65%) in each course

### Admission Requirements: Licensed Practical Nurse (LPN) Access

Licensed Practical Nurses (LPNs) who are applying for admission to the NCBNP must:

- meet all Northern Collaborative Baccalaureate Nursing Program admission requirements
- be a graduate of a Practical Nursing program recognized by the College of Licensed Practical Nurses of BC (CLPNBC) since 1994
- have current practising or be eligible for practising registration with the CLPNBC
- have practised as a LPN for a minimum of 1700 hours in a patient care setting during the last 4 years, OR graduated from a BC Practical Nursing Program within the year of application. Proof of worked hours must be submitted with application and can be obtained from employers

LPN applicants will be assessed on an individual basis and may be eligible for up to a maximum of 24 transfer credit hours of Nursing courses.

Applicants who have completed a BC Practical Nursing Certificate prior to 1994, or have completed a certificate or diploma from a program outside of BC, may not be exempt from any of the first or second year nursing courses.

All successful LPN applicants must meet individually with the Nursing Advisor at the institution to which they are applying in order to be referred to a Nursing Faculty member for transfer credit and proficiency assessment.

### Program Requirements

#### Lower Division Requirement

##### 100 Level

ANTH 101-3	Peoples and Cultures (or equivalent)
HHSC 110-3	Basic Microbiology (at UNBC)
	or BIOL 105-3 Basic Microbiology (at CNC)
	or BIOL 133-3 Applied Microbiology (at NWCC)
HHSC 111-3	Anatomy and Physiology I (at UNBC)
	or BIOL 111-3 Anatomy and Physiology I (at CNC)
	or BIOL 131-3 Human Anatomy and Physiology I (at NWCC)
HHSC 112-3	Anatomy and Physiology II (at UNBC)
	or BIOL 112-3 Anatomy and Physiology II (at CNC)
	or BIOL 132-3 Human Anatomy and Physiology II (NWCC)
NURS 101-3	The Art and Science of Nursing
NURS 102-3	Communication Theory and Practice
PSYC 101-3	Psychology as a Science (or equivalent)



# Undergraduate Programs: Nursing

## 200 Level

MATH 242-3 Statistics for Social and Health Sciences (at UNBC)  
or ECON 205-3 Statistics for Social and Management  
Sciences (at UNBC)  
or MATH 104-3 Introduction to Statistics (at CNC)  
or MATH 157-3 Business Statistics (at CNC)  
or PSYC 201-3 Statistics for the Social Sciences (at CNC)  
or MATH 131-3 Introduction to Statistics (at NWCC)  
or MATH 251-3 Statistics (at NWCC)

Note: UNBC MATH 242-3, CNC MATH 104-3, or NWCC MATH 131-3 are recommended for the Statistics requirement.

NURS 201-4 Introduction to Health Assessment  
NURS 202-3 Pathophysiological Concepts (at CNC)  
or BIOL 220-3 Pathophysiology (at NWCC)  
NURS 203-3 Health Promotion in Families  
NURS 204-3 Healing Modalities (at CNC)  
or BIOL 221-3 Pharmacology for Nurses (at NWCC)  
NURS 205-3 Introduction to First Nations Health  
NURS 206-3 Basic Nutrition (at CNC)  
or BIOL 222-3 Human Nutrition (at NWCC)  
NURS 210-3 Nursing Practice with the Adult  
NURS 211-5 Clinical Practicum: Adult  
NURS 220-5 Extended Clinical Practicum I

## 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 312-3 Mental Health Nursing Practice  
NURS 313-3 Nursing Practice with the Elderly Adult  
NURS 315-2.5 Clinical Practicum: Mental Health  
NURS 316-2.5 Clinical Practicum: Elderly Adult  
NURS 317-3 Maternity Nursing Theory  
NURS 318-3 Pediatric Nursing Theory  
NURS 320-5 Extended Clinical Practicum II  
NURS 321-2.5 Maternity Nursing Clinical  
NURS 322-2.5 Pediatric Nursing Clinical

### 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 Community Health Nursing  
and NURS 440-5 Practicum: Community Health Nursing  
or  
both NURS 422-3 First Nations Health and Nursing  
and NURS 441-5 Practicum: First Nations Health and Nursing  
or  
both NURS 424-3 Rural Nursing  
and NURS 442-5 Practicum: Rural Nursing

or  
both NURS 426-3 Acute Care Nursing  
and NURS 443-5 Practicum: Acute Care Nursing  
or  
both NURS 432-3 Mental Health Nursing  
and NURS 444-5 Practicum: Mental Health Nursing  
or  
both NURS 434-3 Maternal and Child Nursing  
and NURS 445-5 Practicum: Maternal and Child Nursing

## Elective Requirement

Eighteen credit hours chosen to fulfill the requirements below, and to ensure completion of a minimum of 134 credit hours. A course may not be used to satisfy the requirements in more than one category. Students are strongly advised to complete elective course work prior to 4th year.

- Three credit hours in First Nations Studies at any level, or HIST 110-3 Indigena, or equivalent
- Three credit hours in Humanities at any level, or ENGL 170-3, or equivalent
- Three additional credit hours in Nursing at the 200 level or above, or three credit hours at the 200 level or above in a subject related to Nursing (with permission of program)
- At least three credit hours at the 200 level or above in any subject
- At least three credit hours at the 300 level or above in any subject
- Three credit hours at any level in any subject

## Post-Diploma Baccalaureate Nursing Program

The minimum requirement for completion of the Post-Diploma Baccalaureate Nursing Program BScN is 45 credit hours with 24 of these required credits in nursing. Admission occurs in September and January. The fulfillment of admission requirements does not guarantee admission to the post-diploma program and is based on available space.

## Admission Requirements

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. Annual documentation of current, practising CRNBC licensure is required while enrolled in the program.

A total of 15 credits may be transferred from other recognized institutions into the nursing program. 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

# Undergraduate Programs: Nursing

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completed within the five years prior to admission. Normally, the student is currently practising in that specialty area.

In order to meet the graduation requirements for the BScN, the post-RN student must successfully complete the following courses:

## Program Requirements

### Lower Division Requirement

#### 200 Level

MATH 242-3 Statistics for Social and Health Sciences or equivalent

### Upper Division Requirement

#### 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

NURS 415-3 Introduction to Community Health and Nursing

NURS 451-3 Health Assessment Across the Lifespan

POLS 403-3 Social and Health Policy and Administration

A minimum of 9 credit hours selected from the following:

ANTH 101-3 Peoples and Cultures

ANTH 201-3 Medical Anthropology

COMM 230-3 Organizational Behaviour

NURS 301-3 Advanced Pathophysiology

NURS 303-3 Nutrition

or HHSC 311-3 Nutrition

NURS 402-3 Health Promotion

or HHSC 473-3 Health Promotion

NURS 409-3 Pharmacotherapeutics for Nurses

NURS 411-3 Medical Diagnostics for Nurses

NURS 412-3 Women and Health

NURS 416-4 Clinical Practicum: Community Nursing

NURS 452-6 Chronic Disease Management, Palliative Care and Wound Care

NURS 453-3 Nursing Practice with Older Persons

NURS 454-6 Perinatal Care

NURS 455-6 Critical Care, Emergency and Trauma

NURS 456-3 Mental Health and Addictions

NURS 457-3 Living and Working in a Rural Community

At least one of the following areas of clinical concentration:

NURS 420-3 Community Health Nursing

and NURS 440-3 Practicum: Community Health Nursing

or

NURS 422-3 First Nations Health and Nursing

and NURS 441-3 Practicum: First Nations Health and Nursing

or

NURS 424-3 Rural Nursing

and NURS 442-3 Practicum: Rural Nursing

or

NURS 426-3 Acute Care Nursing

and NURS 443-3 Practicum: Acute Care Nursing

or

NURS 428-3 Nursing Management

and NURS 429-3 Practicum: Nursing Management

or

NURS 430-3 Community Continuing Care Nursing

and NURS 431-3 Practicum: Community Continuing Care

Nursing

or

NURS 432-3 Mental Health Nursing

and NURS 444-3 Practicum: Mental Health Nursing

or

NURS 434-3 Maternal and Child Nursing

and NURS 445-3 Practicum: Maternal and Child Nursing

### Elective Requirement

Six credit hours chosen to ensure completion of a minimum of 45 credit hours and fulfillment of the following requirements:

Three credit hours of First Nations Studies at any level.

Three credit hours at the 200 level or above and related to area of clinical concentration (with permission of program).

## Rural Acute Care Nursing Certificate

The Rural Acute Care Nursing Certificate provides the opportunity for Registered Nurses to pursue a concentrated program of courses in Rural Acute Care Nursing. The Certificate will provide students with some of the essential knowledge and clinical skills needed to provide nursing care in rural community hospitals.

The Certificate program has been developed as an academic program that is practice-driven, and supported by health authorities across British Columbia. It is based upon the principles of primary health care, and an orientation to the needs nurses in acute care facilities in rural and remote communities.

The Certificate requires successful completion of 30 credit hours.

A maximum of 15 credit hours from other recognized institutions may be transferred into the Certificate and the BScN completion option.

The Certificate is designed to be completed on a part-time basis through distance education. Students can complete their BScN through the attainment of 15 additional credit hours of prescribed courses.

This Certificate does not replace the UNBC Post-Diploma BScN program as it offers a focus in one specialized area only. Other focus areas provided through the UNBC Post-Diploma BScN, notably

# Undergraduate Programs: Nursing, Outdoor Recreation and Tourism

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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 UNBC Post-Diploma Baccalaureate Nursing Program. Nursing Program policies for Registered Nurse students pursuing a degree apply to Certificate students.

## Certificate Requirements

NURS 451-3	Health Assessment Across the Lifespan
NURS 452-6	Chronic Disease Management, Palliative Care and Wound Care
NURS 453-3	Nursing Practice with Older Persons
NURS 454-6	Perinatal Care
NURS 455-6	Critical Care, Emergency and Trauma
NURS 456-3	Mental Health and Addictions
NURS 457-3	Living and Working in a Rural Community

## BScN Completion

Students wishing to complete the UNBC Post-Diploma BScN will be required to successfully complete 15 credit hours in addition to the Rural Acute Care Nursing Certificate to a total of 45 credit hours.

### 200 Level

MATH 242-3	Statistics for Social and Health Sciences or equivalent
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### 300 Level

NURS 304-3	Introduction to Nursing Knowledge
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### 400 Level

NURS 403-3	Introduction to Nursing Research
NURS 408-3	Nursing Leadership
POLS 403-3	Social and Health Policy and Administration

## Outdoor Recreation and Tourism Management Program

Gail Fondahl, Associate Professor, and Program Chair  
John Shultis, Associate Professor  
Pam Wright, Associate Professor  
Anne Hardy, Assistant Professor  
Zoe Meletis, Assistant Professor  
Raymond Chipenivic, Adjunct Professor  
Greg Ringer, Adjunct Professor  
Patrick Maher, Lecturer

Website: [www.unbc.ca/ortm](http://www.unbc.ca/ortm)

Outdoor recreation and nature-based tourism are part of BC's lifestyle and are now considered to be part of the world's fastest growing industry. The ORTM program capitalizes on the unique location of UNBC by discussing relevant outdoor recreation and nature-based

tourism issues within a northern British Columbia, Canadian and international context.

The ORTM program offers two related academic degrees and an associated minor. Students with an interest in the planning and management of outdoor recreation and conservation areas can take a Bachelor of Science in Natural Resources Management with a Major in Outdoor Recreation and Conservation (see Calendar entry under Natural Resource Management).

Students whose interests are more focused on nature-based tourism, tourism marketing, or indigenous and cultural tourism can take a Bachelor of Arts in Nature-Based Tourism (see Calendar entry under Nature-Based Tourism).

Students who are interested in a minor in outdoor recreation, conservation or nature-based tourism management may take a related minor in Outdoor Recreation and Tourism Management (see Calendar entry under Nature-Based Tourism).

Students in the majors/minor will take courses from the ORTM course listings.

## BSc NRM-Major in Outdoor Recreation and Conservation

See calendar entry under Natural Resources Management- Outdoor Recreation and Conservation

## BA Nature-Based Tourism Management

See calendar entry under Nature-Based Tourism Management

## Minor in Outdoor Recreation and Tourism Management

See calendar entry under Nature-Based Tourism Management

# Undergraduate Programs: Philosophy, Physics

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## Philosophy

Boris DeWeil, Associate Professor, and Coordinating Committee Chair  
Paul Bowles, Professor (Economics)  
Kevin Hutchings, Associate Professor (English)  
Jacqueline Holler, Assistant Professor (Women's Studies, History)  
John Young, Assistant Professor

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 PHIL 205-3 and POLS 317-3 in addition to 12 credit hours chosen from courses listed below for a total of 18 credit hours. A total 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.

## Required

PHIL 205-3 Introduction to the History of Philosophy  
POLS 317-3 Ethics

One of:

ECON 202-3 History of Economic Thought  
ENGL 200-3 Gender and Literary Theory  
PHIL 200-3 Critical Thinking  
PHIL 201-3 Philosophy of Science  
PHIL 202-3 Comparative Religion  
POLS 270-3 Political Philosophy: Plato to Locke

Three of:

COMM 332-3 Business and Professional Ethics  
ENGL 300-3 Theory  
FNST 303-3 First Nations Religion and Philosophy  
FNST 304-3 First Nations Environmental Philosophy and Knowledge  
HIST 300-3 Historiography: The Nature of the Historical Discipline  
POLS 370-3 Political Philosophy: Locke to Marx  
WMST 311-3 History of Feminism  
ANTH 401-3 Anthropological Perspectives on Inequality  
ANTH 405-3 Topics in Landscapes and Place  
ANTH 406-3 Feminist Perspectives in Anthropology  
ENGL 400-3 Contemporary Theory  
ENVS 414-3 Environmental and Professional Ethics  
POLS 400-(3-6) Classics in Political Theory  
POLS 472-3 Contemporary Theories of Political Community  
WMST 411-3 Contemporary Feminist Theories

## Physics (BSc Program)

Ahmed Hussein, Professor Emeritus

Erik Jensen, Associate Professor, and Program Chair  
Elie Korkmaz, Professor  
Mark Shegelski, Professor  
Moustafa Mohamed, Associate Professor  
Matthew Reid, Assistant Professor  
Patrick Mann, Adjunct Professor  
Christine Domning, Senior Lab Instructor

Website: <http://www.unbc.ca/physics/>

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.

PHYS 307-3 (Selected Topics in Environmental Physics) may not be used as Physics credit toward any Physics major, minor, or joint major.

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

## Program Requirements

### Lower Division Requirement

#### 100 Level

CHEM 100-3 General Chemistry I  
MATH 100-3 Calculus I  
or MATH 105-3 Enriched Calculus  
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 Programming I  
or CPSC 110-3 Introduction to Computer Systems and Programming

### 200 Level

MATH 200-3	Calculus III
MATH 201-3	Introduction to Complex Analysis
MATH 220-3	Linear Algebra
MATH 230-3	Linear Differential Equations and Boundary Value Problems
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 334-3	Ordinary Differential Equations
PHYS 300-3	Classical Mechanics
PHYS 302-3	Quantum Mechanics I
PHYS 390-3	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

Elective credit hours as necessary to ensure completion of a minimum of 124 credit hours.

Recommended electives include:

CPSC 101-4	Computer Programming II
	or CPSC 311-3 Computer Applications Programming
CHEM 101-3	General Chemistry II
CHEM 200-3	Physical Chemistry I
MATH 335-3	Numerical Analysis I
MATH 340-3	Introduction to Probability

### Joint Major in Chemistry/Physics

See Calendar entry under Chemistry.

### Joint Major in Computer Science/Physics

See Calendar entry under Computer Science.

### Joint Major in Mathematics/Physics

See Calendar entry under Mathematics.

### 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 four courses (consisting of two 100 level courses plus two courses at the 200 level or beyond to a maximum of 15 credit hours) which are used to fulfill 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

Twelve credit hours of 300 or 400 level PHYS.

The upper division courses are selected in consultation with an advisor from the Physics program to reflect the student's specific interests. PHYS 307-3 (Selected Topics in Environmental Physics) may not be used as Physics credit toward any Physics major, minor, or joint major.

### Major in Planning

See Calendar entry under Environmental Planning

# Undergraduate Programs: Political Science

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## Political Science (BA Program)

Alex Michalos, Professor Emeritus

John Young, Assistant Professor, and Program Chair

Don Cozzetto, Professor

Deborah Poff, Professor

Boris DeWiel, Associate Professor

Michael Murphy, Associate Professor, and Canada Research Chair,

Comparative Indigenous-State Relations

Tracy Summerville, Assistant Professor

Gary Wilson, Assistant Professor

Greg Poelzer, Adjunct Professor

Jason Morris, Lecturer

Website: <http://www.unbc.ca/politicalscience>

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 51 credit hours 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 51 credit hours in Political Science and related disciplines.

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.

## 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 270-3 Political Philosophy: Plato to Locke

POLS 290-3 Research and Writing in Political Science

### Upper Division Requirement

#### 300 and 400 Level

INTS 310-3 Origins and Evolution of International Studies

POLS 303-3 Democracy and Dictatorship

POLS 320-3 Canadian Politics and Policy

POLS 370-3 Political Philosophy: Locke to Marx

Six upper division courses in POLS or INTS, two of which must be at the 400 level.

## Elective Requirement

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

## Joint Major in Economics/Political Science

See Calendar entry under Economics.

## Joint Major in English/Political Science

See Calendar entry under English.

## Joint Major in History/Political Science

See Calendar entry under History.

## Joint Major in International Studies/Political Science

See Calendar entry under International Studies.

## Joint Major in Political Science/Women's Studies

The Political Science/Women's Studies Joint Major will equip students to understand the relationship between the study of the literature and its women's studies context. The degree will be particularly attractive to students who intend to pursue a career in teaching or further studies in Political Science or Women's Studies.

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

## Program Requirements

### Lower Division Requirement

POLS 100-3	Contemporary Political Issues
POLS 200-3	Canadian Government and Politics
WMST 100-3	Introduction to Women's Studies
POLS 202-3	Comparative Government and Politics
ECON 205-3	Statistics for the Social and Management Sciences
	or MATH 242-3 Statistics for the Social and Health Sciences
POLS 270-3	Political Philosophy: Plato to Locke
POLS 290-3	Reading and Writing for Political Science

Three additional Women's Studies courses at the 100 or 200 level.

### Upper Division Requirement

INTS 308-3	Gender and International Studies
POLS 313-3	Women and Politics
POLS 320-3	Canadian Politics and Policy
POLS 370-3	Political Philosophy: Locke to Marx
WMST 302-3	Women and the Contemporary World
WMST 307-3	Qualitative Research Methods
HIST 311-3	History of Feminism

### Additional Requirement

Three additional courses selected from:

ANTH 401-3	Anthropological Perspectives on Inequality
ANTH 406-3	Feminist Perspectives in Anthropology
COMM 333-3	Women in Organizations
ECON 301-3	Women and the Economy
ENVS 309-3	Women and Environmental Studies
FNST 407-3	First Nations Perspectives on Race, Class, Gender and Power
HIST 309-3	Women in Canada
HIST 453 (3-6)	Topics in the History of Gender
HIST 454 (3-6)	Topics in Women's History
NURS 412-3	Women and Health
SOCW 433-3	Women in the Human Services
SOCW 449-3	Gender Sexuality
WMST 303-3	Lesbian and Bisexual Lives
WMST 304-3	Contemporary Women's Writing in an International Frame
WMST 309-3	Gender and Film
WMST 312-3	Introduction to the History of Gender
WMST 401-3	Cultural Studies: Gender, Race, and Representation
WMST 410-3	Feminist Political Philosophy
WMST 411-3	Contemporary Feminist Theories
WMST 413-3	Topics in Aboriginal Women's Studies
WMST 420-3/	
ENGL 410-3	Contemporary Women's Literature
WMST 498-(3-6)	Selected Topics

Three of:

POLS 303-3	Democracy and Dictatorship
POLS 305-3	United States Politics
POLS 311-3	Russian Politics and Society
POLS 314-3	European Politics and Government
POLS 405-3	Topics in Society and Democracy
POLS 415-3	Comparative Northern Development

### Elective Requirement

Electives at any level in any subject sufficient 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

One of:

- POLS 200-3 Canadian Government and Politics
  - POLS 202-3 Comparative Government and Politics
  - POLS 270-3 Political Philosophy: Plato to Locke
- 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.

## Psychology (BSc Program)

William Owen, Assistant Professor, and Program Chair  
Han Li, Professor  
Kenneth Prkachin, Professor  
Robert Tait, Professor  
Sherry Beaumont, Associate Professor  
Cindy Hardy, Associate Professor  
Henry Hardy, Associate Professor  
Glenda Prkachin, Associate Professor  
Lorraine Lavallee, Assistant Professor  
Kyle Matsuba, Assistant Professor  
Paul Siakaluk, Assistant Professor  
William Wong, Assistant Professor  
Elizabeth Rocha, Adjunct Professor  
Julie Orlando, Senior Lab Instructor

Website: <http://www.unbc.ca/psychology>

Psychology is the study of behaviour and mental processes. It focuses on 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 17 psychology courses (53 credit hours). Of these, at least 12 (38 credit hours) must be upper division courses.

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

## 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 215-3 Research Design and Methodology in Psychology I
- PSYC 216-3 Research Design and Methodology in Psychology II
- PSYC 260-3 Psychological Foundations

Note: 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 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 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

Fifteen credit hours of 300 or 400 level Psychology courses.

## Elective Requirement

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

## BSc Honours - Psychology

Honours students are required to complete 134 credit hours. In addition to the requirements for the Psychology BSc program, students are required to take 12 additional credit hours including the following:

PSYC 490-3 Honours Thesis I  
PSYC 495-3 Honours Thesis II  
PSYC 497-3 Senior Seminar

One of:

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 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

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.

The minimum requirement for completion of a BSc Honours - Psychology is 134 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 a total of 21 credit hours from the following courses:

PSYC 101-3 Psychology as a Science  
PSYC 102-3 Psychology and Human Problems  
PSYC 215-3 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.

# Undergraduate Programs: Public Administration

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## Public Administration Certificate Program

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.

## 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.

**Note: Major in Public Administration and Community Development. See Calendar Entry under Geography.**

## Russian Studies

Aileen Espiritu, Assistant Professor, and Coordinator (History)  
Michel Bouchard, Associate Professor (Anthropology)  
Gail Fondahl, Associate Professor (Geography)  
Nicholas Tyras, Assistant Professor (International Studies)  
Gary Wilson, Assistant Professor (Political Science)  
John Young, Assistant Professor (Political Science)

Website: [http://www.unbc.ca/russian\\_studies](http://www.unbc.ca/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 Topics in Society and Democracy

Note: Students intending to pursue advanced 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)

- Child Welfare Specialization
- First Nations Specialization
- Child Welfare Certificate

Dawn Hemingway, Associate Professor, and Chair  
Gerard Bellefeuille, Associate Professor  
Bruce Bidgood, Associate Professor  
Glen Schmidt, Associate Professor  
Si Chava Transken, Associate Professor  
Jill Grant, Assistant Professor  
Judy Hughes, Assistant Professor  
Joelle McKiernan, Assistant Professor  
Heather Peters, Assistant Professor  
Joanne Pierce, Assistant Professor  
Michele A. Sam, Assistant Professor  
Dave Sangha, Assistant Professor  
Eleanor Wint, Assistant Professor  
Greg Beattie, Adjunct Professor  
Robert Hart, Adjunct Professor  
Dora Tam, Adjunct Professor  
Kwong Tang, Adjunct Professor  
Anita Vaillancourt, Adjunct Professor

Website: <http://www.unbc.ca/socialwork>

The School of Social Work 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 generalized 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 School of Social Work. As mandated by its accrediting body, the Canadian Association for Social Work Education (CASWE), and the relevant Social Work Codes 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 Requirements

Admission to the Bachelor of Social Work program is limited and is based on academic qualifications and available space. 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. More information about these criteria can be found in the BSW Supplementary Application for Admission form.

# Undergraduate Programs: Social Work

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The School of Social Work 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 (Academic Regulation #19).

Undergraduate students are required to take 60 credit hours of Upper Division Social Work courses. The minimum requirement for a Bachelor of Social Work is 120 credit hours.

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 outside one of the specializations are required to select 15 credit hours of Social work electives.

The minimum requirement for a Bachelor of Social Work is 120 credit hours.

## Field Placements

Every effort will be made to secure appropriate field placements for students in the School of Social Work. However, the location and type of placement are subject to availability.

## Costs Associated with the School of Social Work

Costs associated with study in the School of Social Work are the responsibility of the individual student, including transportation costs and any expenses involved in academic studies, lab, and field placement. In some circumstances, students may complete field experiences at sites other than their campus of registration. Provision for all travel, accommodation, and living expenses associated with field education is the sole responsibility of the student.

## Standards of Professional Conduct

All students are expected to abide by professional standards as set forth by the Canadian Association for Social Work Education (CASWE) and the relevant Social Work Codes of Ethics. Violation of professional standards may result in suspension or dismissal from the program or the educational institution.

## Academic Performance

Students may repeat a Social Work course once. Students who fail a required Social Work course twice are required to withdraw from the program.

## 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 Social Work degree.
- obtain a minimum passing grade of 2.00 ("C") in every Social Work course for credit towards the degree.
- complete all requirements for the BSW program within eight years of admission into the program or from the first Social Work course used for credit towards the degree.

## Transfer Credit

All transfer credit for course work taken prior to admission to the BSW program will be evaluated, and applied at the time of initial registration in the program. After students have been admitted to the School of Social Work, course work taken in other institutions for transfer credit towards the degree requires a letter of permission prior to the registration in the course.

## Program Requirements

### Lower Division Requirement

#### 100 and 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
SOCW 421-3*	Human Growth and Development

\*Please see note on SOCW 421-3 in the course description listings in this calendar.

## Elective Courses

Fifteen (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 422-3	Child Welfare Practice
SOCW 424-3	Child Welf/Sites of Resistance
SOCW 426-3	Current Issues in Child Welfare Practice
SOCW 432-3	Unemployment and Social Work
SOCW 433-3	Women in the 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 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 454-3	Disability Issues
SOCW 455-3	First Nations Governance and Social Policy
SOCW 456-3	Family Caring Systems
SOCW 457-3	Individual and Community Wellness
SOCW 498 (3-6)	Special Topics
SOCW 499-3	Directed Readings

## Elective Requirement

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

## BSW: Child Welfare Specialization

The Child Welfare Specialization has been designed to provide a program of studies that prepares students for practice in child welfare, while also satisfying the general practice criteria required for BSW accreditation and for designation as a Registered Social Worker (RSW).

Students must meet all prerequisites for entry into the BSW program at UNBC and be accepted into the program. The fourth year practicum will take place in a government child welfare service (BC Ministry for Children and Families, or a fully delegated First Nations child welfare agency or an approved government agency in another province). Completion of the specialization is noted on the student's graduating transcript.

The Child Welfare Specialization has been designed to provide a social work degree that will prepare students for social work practice in all child and family serving agencies. In addition, the program has been designed to meet the BC Ministry for Children and Families entry level expectations for child protection positions.

## Program Requirement

SOCW 300-3	Communication Skills in Social Work Practice
SOCW 301-3	Critical Social Work Practice
SOCW 302-6	Social Work Field Education I
SOCW 320-3	Critical Social Policy
SOCW 330-3	Social Work Research, Policy and Practice
SOCW 336-3	Social Work Philosophy and Ethics
SOCW 401-3	Northern and Remote Social Work Practice
SOCW 402-15	Social Work Field Education II
SOCW 410-3	First Nations Social Work Issues
SOCW 420-3	Family/Child Welfare Policy
SOCW 421-3*	Human Growth and Development
SOCW 422-3	Child Welfare Practice
SOCW 426-3	Current Issues in Child Welfare Practice
SOCW 439-3	Social Work/Law and the Justice System

\*or equivalent

## Elective Courses

One Social Work Elective.

# Undergraduate Programs: Social Work, Women's Studies

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## BSW: First Nations Specialization

The First Nations Specialization has been designed to provide a program of studies that prepares students for practice with First Nations people, while also satisfying the general practice criteria required for BSW accreditation and for designation as a Registered Social Worker (RSW).

Students must meet all prerequisites for entry into the BSW program at UNBC and be accepted into the program. The fourth year practicum will take place with a First Nations organization.

Completion of the specialization is noted on the student's transcript.

### Program Requirement

SOCW 300-3	Communication Skills in Social Work Practice
SOCW 301-3	Critical Social Work Practice
SOCW 302-6	Social Work Field Education I
SOCW 320-3	Critical Social Policy
SOCW 330-3	Social Work Research, Policy and Practice
SOCW 336-3	Social Work Philosophy and Ethics
SOCW 401-3	Northern and Remote Social Work Practice
SOCW 402-15	Social Work Field Education
SOCW 410-3	First Nations Social Work Issues
SOCW 421-3*	Human Growth and Development
SOCW 455-3	First Nations Governance and Social Policy
SOCW 456-3	Family Caring Systems
SOCW 457-3	Individual and Community Wellness

### Elective Courses

Any three upper division social work electives.

## Child Welfare Certificate

The Child Welfare Certificate program is open only to Bachelor of Social Work and Bachelor of Child & Youth Care graduates. The Certificate is designed to prepare students for child protection practice with the Ministry of Children and Family Development. Primary focus is on students learning and practicing specialized skills for child welfare practiced in the northern and rural regions of British Columbia. However, certificate graduates will be well prepared to work in all agencies and locations that provide child welfare service. The Certificate consists of 18 credit hours. Admission into the Certificate program is limited. Students must establish their course of study with approval from the Chair of the School of Social Work.

Students will be required to undergo a criminal records search prior to being admitted. Refer to Academic Regulation #19.

A maximum of 6 credit hours may be transferred from courses taken in the UNBC Bachelor of Social Work Program, or from other recognized institutions into the Certificate program.

## Standards of Professional Conduct

All students are expected to abide by professional standards as set forth by the Canadian Association for Social Work Education (CASWE) and the relevant Social Work Codes of Ethics. Violation of professional standards may result in suspension or dismissal from the program or the education institution.

### Qualification for a Certificate

To fulfill the requirements of graduation, the student must:

- attain a minimum cumulative GPA of 2.33 (C+) on courses for credit towards the Certificate
- complete all course requirements for the Certificate

## Certificate Requirements

SOCW 401-3	Northern and Remote Social Work
SOCW 422-3	Child Welfare Practice
SOCW 426-3	Current Issues on Child Welfare Practice
SOCW 439-3	Social Work/Law and the Justice System
SOCW 497-3	Reflection on Practice
SOCW 499-3	Directed Readings

## Women's Studies (BA Program)

Jacqueline Holler, Assistant Professor, and Coordinator  
Deborah Poff, Professor  
Maryna Romanets, Assistant Professor  
Theresa Healy, Adjunct Professor  
Rhonda Semple, Adjunct Professor  
Si Chava Transken, Adjunct Professor

Website: <http://www.unbc.ca/womenstudies>

Women's Studies is an interdisciplinary field dedicated to studying the historical, cultural, literary, and societal role of women and gender. UNBC's program has strengths in areas such as women's and gender history; gender, literature, and literary theory; gender, colonialism, and postcolonialism; gender and globalization; feminism, justice, and ethics; gender and health; and gender and international studies.

The Women's Studies program offers majors and minors in Women's Studies and, in cooperation with other programs, four joint majors. At the graduate level, the program offers a Master's degree in Gender Studies.

## Major in Women's Studies

A major in Women's Studies requires students to take 48 credit hours of Women's Studies (16 courses), at least 36 credit hours of which must be upper division courses either in Women's Studies or from the gender-and/or women related offerings of other programs.

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

## Program Requirements

### Lower Division Requirement

WMST 100-3 Introduction to Women's Studies

Three additional Women's Studies courses at the 100 or 200 Level.

### Upper Division Requirement

WMST 302-3 Women and the Contemporary World

WMST 307-3 Qualitative Research Methods

Three of:

WMST 306-3/

FNST 306-3 Indigenous Women: Perspectives

WMST 311-3/

HIST 311-3 History of Feminism

WMST 312-3/

HIST 312-3 Introduction to the History of Gender

WMST 413 (3-6)/

FNST 413 (3-6) Topics in Aboriginal Women's Studies

WMST 420-3/

ENGL 410-3 Contemporary Women's Literature

### Additional Requirement

Seven courses (21 credits) selected from the following:

WMST 303-3 Lesbian and Bisexual Lives

WMST 304-3 Contemporary Women's Writing in an International Frame

WMST 309-3 Gender and Film

WMST 401-3 Cultural Studies: Gender, Race, and Representation

WMST 410-3 Feminist Political Philosophy

WMST 411-3 Contemporary Feminist Theories

WMST 498-(3-6) Selected Topics

ANTH 401-3 Anthropological Perspectives on Inequality

ANTH 406-3 Feminist Perspectives in Anthropology

COMM 333-3 Women in Organizations

ECON 301-3 Women and the Economy

ENVS 309-3 Women and Environmental Issues

FNST 407-3 Race, Class, Gender, and Power

HIST 309-3 Women in Canada

HIST 453 (3-6) Topics in the History of Gender

HIST 454 (3-6) Topics in Women's History

INTS 308-3 Gender and International Studies

NURS 412-3 Women and Health

POLS 313-3 Women and Politics

SOCW 433-3 Women in the Human Services

SOCW 449-3 Gender and Sexuality

*Alternative courses related to women and/or gender may be substituted with the written permission of the Program Coordinator.*

## Elective Requirement

Electives to ensure completion of a minimum of 120 credit hours.

### Joint Major in English/Women's Studies

See Calendar entry under English.

### Joint Major in First Nations Studies/Women's Studies

See Calendar entry under First Nations Studies.

### Joint Major in History/Women's Studies

See Calendar entry under History.

### Joint Major in Political Science/Women's Studies

See Calendar entry under Political Science.

### 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.

# Course Descriptions

## Course Abbreviations Listed Alphabetically

Course Code	Courses
ANTH	Anthropology
ARTS	Arts
BIOL	Biology
CHEM	Chemistry
COMM	Commerce/Business Administration
COOP	Cooperative Education
CPSC	Computer Science
CORE	Core
ECON	Economics
EDUC	Education
ENGL	English
ENPL	Environmental Planning
ENSC	Environmental Science and Engineering
ENVS	Environmental Studies
FNST	First Nations Studies
FSTY	Forestry
GEOG	Geography
HHSC	Health and Human Science
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
ORTM	Outdoor Recreation and Tourism Management
PHIL	Philosophy
PHYS	Physics
POLS	Political Science
PSYC	Psychology
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. Unless otherwise stated, a passing grade of "D-" or better is required to satisfy as a prerequisite 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 enroll in COMM 314-3.

### Course Offerings

Not all courses are offered every year. Check online Course Listings 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.

**Course Number**—indicates discipline and level of study (100-299 for lower division, 300-499 for upper division, 500 for honours level and post-baccalaureate courses).

**Credit Hours**—credit hours are assigned to each course; most courses are 3 credit hours.

**Courses with Variable Credit Hours**—some courses are listed with a choice of credit hours; for example: (3-6) implies that the course may be offered for any number of credits from 3 to 6 inclusive. Some courses may be repeated for credit when the subject matter differs substantially. Where an option to repeat is available, a statement to this effect appears within the course description.

**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.

**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



## 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 Peoples and Cultures** Examines the diversity of human cultures and languages through the comparison of contemporary societies, patterns of social organization.

*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** Understanding 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. Examples relevant to Northern people and issues will be developed.

*Prerequisites:* none

*Recommended:* ANTH 100-3 or 101-3

**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 205-3 Introduction to Archaeology** An introduction to archaeological methods. This course will trace the developmental history of the discipline, and will focus on current methods and techniques used in archaeology. Using case studies drawn from around the globe, the course will highlight the holistic and interdisciplinary nature of archaeology.

*Prerequisites:* none

*Recommended:* ANTH 100-3

**ANTH 206-3 Ethnography in northern British Columbia** A survey of the ethnographic literature for this region, and an introduction to the methodology and paradigms of ethnographic research.

*Prerequisites:* none

*Recommended:* ANTH 101-3

**ANTH 207-3 Popular Culture** The study of contemporary cultural phenomena with anthropological methods.

*Prerequisites:* none

*Recommended:* ANTH 101-3

*Precluded:* ANTH 412-3

**ANTH 209-3 Pacific Ethnography** A survey of the ethnographic literature of the Pacific with a focus on selected cultures and/or regions. The course will discuss the methodology and paradigms of the area's ethnographic research.

*Prerequisites:* none

*Recommended:* ANTH 101-3

**ANTH 210-3 Understanding Theory** This course investigates the major theoretical trends in anthropology from the nineteenth century to the present. It will introduce central issues in anthropology theory, key concepts in the discipline, important authors and debates over theoretical perspectives.

*Prerequisites:* ANTH 100-3, 101-3, or 211-3

**ANTH 211-3 Anthropology Through Film** This course will introduce the student to the subject matter and theories of social and cultural anthropology through the extensive use of anthropological and documentary film. Topics will cover a spectrum of issues, including: marriage and the family; economics; ritual and religion; conflict and conflict resolution; and culture change, among others.

*Prerequisites:* none

*Recommended:* ANTH 101-3

**ANTH 212-3 Archaeology of the Old World** This survey course focuses on human antiquity outside of the Americas. Temporally the course covers some two and a half million years of prehistory, beginning with the earliest known archaeological evidence in Africa, and ending with the great civilizations of Asia, Europe and Africa.

*Prerequisites:* none

*Recommended:* ANTH 100-3

**ANTH 214-3 Anthropology of Europe** A survey of the anthropological literature of Europe, with a focus on selected cultures or regions. The course will discuss the methodology and paradigms of the area's ethnographic research.

*Prerequisites:* none

*Recommended:* ANTH 101-3

**ANTH 215-3 Anthropology of Canada** A survey of the anthropological literature describing Canada, with a focus on selected cultures or regions. Examples relevant to northern peoples and issues will be used. The course will discuss the methodology and paradigms of the area's ethnographic research. This course will allow students to make inferences to analyze what is happening in their own community.

*Prerequisites:* none

*Recommended:* ANTH 101-3

# Course Descriptions: Anthropology

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**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:* none

**ANTH 298-(3-6) Topics in Anthropology** This course will cover particular aspects of anthropology selected by the instructor. May be repeated for credit (maximum six credit hours) with the permission of the instructor and the Program Chair (permission to be given only when the subject matter differs substantially).

*Prerequisites:* permission of the Program Chair

**ANTH 300-3 Methods in Social Anthropology** Research design, data collection, statistics and analysis as used in social anthropology. The seminar will discuss field methods and use of archival materials.

*Prerequisites:* ANTH 210-3

**ANTH 301-3 Archaeological Lab Methods** This course introduces students to laboratory methods used in archaeological analyses. Topics will include chipped and ground stone tools, fauna, bone tools, basketry, quantitative methods and more. Students will conduct research projects, and may have the opportunity to analyze artifacts from archaeological sites in BC and elsewhere.

*Prerequisites:* ANTH 205-3

**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 304-3 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

*Precluded:* ANTH 408-3

**ANTH 305-3 Circumpolar Ethnography** A survey of the archaeological and ethnographic literature on the north, with a focus on selected cultures from Alaska, Northern Canada, Greenland, Northern Scandinavia and Northern Russia. The course will discuss the methodology and paradigms of the area's ethnographic research.

*Prerequisites:* none

*Recommended:* ANTH 101-3

*Precluded:* ANTH 208-3, NORS 321-3

**ANTH 306-3 Culture and Communication** This course will provide an overview of the ways anthropology analyzes languages and communication. Topics may include: Ethnolinguistics and Ethnoscience; discourse analysis; and language use and language planning in the modern nation-state.

*Prerequisites:* ANTH 210-3 or permission of the instructor

*Precluded:* ANTH 402-3

**ANTH 310-3 Applied Anthropology** Theory in practice as it is understood by those who practice and advocate what many consider to be an entire sub field in anthropology: Applied Anthropology. The course will focus on the practice of anthropology using examples relevant to the northern world, and will consider issues associated with doing anthropology in difficult situations.

*Prerequisites:* upper division standing

*Recommended:* ANTH 210-3

**ANTH 311-3 Nutritional Anthropology** This course undertakes a biocultural examination of the relationship between food (e.g., acquisition and avoidance; distribution; preparation), human health, and society in past and present populations. Lab exercises examine aspects of research methodology, including anthropometrics, dietetics and energetics.

*Prerequisites:* ANTH 200-3 or permission of the instructor

*Precluded:* HHSC 311-3 (this is cross-listed with ANTH 311-3)

**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 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 325-3 Archaeological Theory** Over the last three decades, there has been a tremendous explosion of literature concerning theory in archaeology. In this seminar course, students will learn about the historical contexts and development of the various theoretical schools that have contributed to our current state of knowledge. Weekly readings and seminar discussion will be mandatory.

*Prerequisites:* ANTH 205-3

# Course Descriptions: Anthropology

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**ANTH 335-3 Archaeological Heritage Management** In this lab-seminar course, weekly readings focus on topics relevant to archaeological heritage management, also known as Cultural Resource Management (CRM). Discussions will center on issues such as: heritage legislation in British Columbia and elsewhere, First Nations and private sector concerns, and archaeological consulting. Labs will focus on methodological issues such as survey techniques, culturally modified trees and more.

*Prerequisites:* ANTH 205-3

**ANTH 380-3 Special Topics in Archaeology** Occasional course offering to enable existing or visiting faculty to teach courses not normally offered in the program. Each course will reflect the geographic and topical interests of the instructor, and will only be offered at any given time depending on availability of an instructor.

*Prerequisites:* permission of the instructor

**ANTH 400-3 Topics in Anthropological Theory** The course will survey and critique selected contemporary approaches to cultural and social theory.

*Prerequisites:* ANTH 210-3 or permission of the instructor

**ANTH 401-3 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 instructor

*Precluded:* ANTH 309-3

**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:* ANTH 206-3, 208-3, or 211-3 or permission of the instructor

**ANTH 405-3 Topics in Landscapes and Place** An examination and critique of the anthropological approaches to landscape, space and place. Cross-cultural and cross-temporal case studies will be used.

*Prerequisites:* upper division standing

*Precluded:* ANTH 413-3

**ANTH 406-3 Feminist Perspectives in Anthropology** This course will survey and critique selected theoretical approaches and ethnographies to examine key area of interest and debate in the field of feminist anthropology. This course will draw from the political ideology in feminism concerned with critical examination of gender relations and cross-cultural anthropological study.

*Prerequisites:* upper division standing or permission of the instructor

*Precluded:* ANTH 307-3

**ANTH 407-3 Topics in British Columbia Ethnography** A comparative critique of contemporary ethnographic research of selected cultures or regions.

*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 410-3 Theory of Nation and State** A critical examination of theories of ethnicity, nationalism and statehood from an anthropological perspective.

*Prerequisites:* upper division standing

**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.

*Prerequisites:* ANTH 200-3 or permission of the instructor

**ANTH 413-3 Topics in Environmental Anthropology** An examination of the anthropological literature on ecology and environmental practices. Contemporary issues and examples relevant to indigenous practices and northern peoples will be developed.

*Prerequisites:* upper division standing

*Recommended:* prior course(s) in anthropology

**ANTH 414-3 Religion, Ideology, and Belief Systems** This course provides a review of anthropological approaches to religion, ideology and belief systems with comparative examples from several cultures.

*Prerequisites:* ANTH 101-3 and Upper Division Standing or permission of the instructor

**ANTH 415-3 Economic Anthropology** This course is an introduction to the field of economic anthropology, looking at social and cultural contexts for processes of production, distribution, and consumption. Contemporary issues such as development will be explored.

*Prerequisites:* ANTH 101-3 and Upper Division Standing or permission of the instructor

**ANTH 416-6 Archaeological Survey and Mapping** Course participants will learn about archaeological survey, from both the academic perspective, and from the perspective of professional consulting archaeology. Students will become proficient at map reading, compassing, sampling strategies in forest and non-forest environments, and recognizing cultural features pertinent to the area. Participants will learn skills necessary for potential employment with professional archaeology firms; this will include observing protocols with First Nation communities and liaising with government and corporate entities. Where possible, students will have an opportunity to work for a few days with professional consultants.

*Prerequisites:* permission of the instructor

*Co-requisites:* ANTH 417-6 and 418-3

# Course Descriptions: Anthropology

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## **ANTH 417-6 Excavation and Field Interpretation in Archaeology**

Excavation forms a central aspect of archaeology. As part of this course, students and community members will participate in a 6-8 week excavation of an archaeological locality. This will involve initial set up of the area, excavation and record-keeping, and basic field laboratory procedures. In addition to "hands-on" participation, daily seminar discussion will be mandatory; topics will centre on each day's survey and excavation results. These sessions will be interdisciplinary, reflecting the interests of the instructors, community members, visiting researchers and students. Topics will invariably focus on geomorphology, lithic artifacts, zooarchaeology, paleoethnobotany, paleoecology, oral traditions and traditional use, and the social context of conducting archaeology. The field school will often take place in remote localities in British Columbia and elsewhere, and so students may have to live in a field camp situation. In addition to basic tuition, there may be additional fees to cover camp and transportation costs.

*Prerequisites:* permission of the instructor

*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 419-3 Political and Legal Anthropology** This course provides a comparative study of power; political organization; leadership; non-centralized and centralized political systems social control; and a cross-cultural study of law. Contemporary issues relevant to the north will be addressed, for example self government and sovereignty.

*Prerequisites:* ANTH 101-3 and Upper Division Standing or permission of the instructor

**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 421-(3-6) Ethnographic Field Methods** A project-based seminar in which students will actualize field methods in ethnographic research, in addition to closely examining questions of ethical research and community participation in ethnographic research. This course consists of at least three weeks of classroom instruction in a field location and will emphasize the actualization of conventional ethnographic methods and procedures in an actual field setting. Students will be expected to participate in a larger field project and to gain direct experience in field methods while being sensitized to the requirements of ethical research and community involvement in ethnography.

*Prerequisites:* ANTH 101-3, ANTH 210-3

**ANTH 422-(3-6) Ethnographic Research Project** A project-based course in which students shall examine and compare selected aspects of cultures and peoples before integrating this acquired knowledge to design and carry out a major research project arising from the field experience. The ethnographic material covered shall be appropriate to the field school's locality and/or general research topic.

*Prerequisites:* ANTH 101-3, ANTH 210-3

**ANTH 423-3 Urban Anthropology** This course provides a review of the anthropological approaches to and the social theory of contemporary urban society in the local, national and global contexts of the modern world. Contemporary issues relevant to the North will be addressed.

*Prerequisites:* ANTH 101-3 and Upper Division Standing or permission of the instructor

**ANTH 425-3 Introduction to Zooarchaeology** This lab course introduces students to the study of animal bones found in archaeological contexts. The first part of the course focuses on animal bone identification, while the second part centers on theoretical aspects of animal use by pre-Industrial human societies. As part of the course, students may have to prepare animal skeletons.

*Prerequisites:* ANTH 301-3 or permission of the instructor

**ANTH 430-3 Stone Tools in Archaeology** Stone tools are the most ubiquitous type of artifacts found around the world. This lab-seminar course focuses on methods and techniques for analyzing stone tools, and includes a strong theoretical component on stone tool production and use in pre-Industrial societies. Weekly labs will focus on analytical procedures, and in addition students are expected to complete assigned readings and participate in discussions.

*Prerequisites:* ANTH 301-3 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:* FNST 451-3

## **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

**ANTH 500-3 Method and Theory Seminar** An examination of current developments within the subdiscipline in which the student is taking the honour's program. Developed in consultation with and supervised by a member of the Anthropology faculty, the aim is as much to explore where linkages do and do not exist across Anthropology's subdisciplines as it is to understand the state-of-the-art of the chosen subdiscipline. The course will conclude with a seminar discussion developed and directed by the student, open to all Anthropology faculty and the student's peers.

*Prerequisites:* admission to the Honours Program

**ANTH 501-3 Research Prospectus** In consultation with the supervisor, the student will design an original research project which will form the core of the Honour's thesis. The design will be presented as a colloquium open to the university community.

*Prerequisites:* ANTH 500-3 or permission of the Program Chair

**ANTH 502-3 Honours Thesis** In accordance with the program guidelines for thesis projects, the student will present the results of their project in a paper of 12,500 – 15,000 words, to be evaluated by the thesis supervisor and an outside reader. Successful completion of the Honours thesis course will be based on the quality of the written work, as well as an oral defense open to the university community.

*Prerequisites:* ANTH 501-3

## 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** This course is an introduction to the biological sciences including nature of life, cell structure, function, development, metabolism, genetics and evolutionary theory.

*Prerequisites:* Biology 11 or Biology 12

*Precluded:* BIOL 100-4

**BIOL 102-4 Introductory Biology II** This course is a survey of living organisms, plant and animal form and function, ecology and population biology.

*Prerequisites:* Biology 11 or Biology 12 or BIOL 101-4

*Precluded:* BIOL 100-4

*Recommended:* BIOL 101-4

**BIOL 110-3 Introductory Ecology** This course is designed to introduce non-science majors to ecological systems. Principles of ecology, biotic and abiotic conditions, population, community and ecosystem structure, human impacts on these systems, and basic concepts of conservation and preservation of ecosystems.

*Prerequisites:* none

*Precluded:* BIOL 201-3

**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 101-4 and 102-4

**BIOL 202-3 Invertebrate Zoology** Systematics, development and evolution of the invertebrates.

*Prerequisites:* BIOL 101-4 and 102-4

**BIOL 203-3 Microbiology** This course introduces students to the classification and biology of prokaryotic and eukaryotic microorganisms. and applications to forestry, agriculture, environmental science, medicine and industry. In the laboratory, students will learn techniques for culturing and characterizing microorganisms.

*Prerequisites:* BIOL 101-4 and 102-4

*Recommended:* BIOL 210-3 and at least one of CHEM 201-3, 204-3, or 220-3 (may be taken concurrently).

**BIOL 204-3 Plant Biology** The interrelationships between form and function of the living plant, including systematics, development, physiology and evolution.

*Prerequisites:* BIOL 101-4 and 102-4

**BIOL 210-3 Genetics** Principles of modern and classical genetics.

*Prerequisites:* BIOL 101-4 and 102-4

## Course Descriptions: Biology

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**BIOL 301-3 Systematic Botany** This course introduces students to plant taxonomy and biodiversity, including principles of systematic botany, nomenclature and classification. Special attention is given to the identification of the native regional flora. Students contemplating registration in this course should consult with the instructor before the end of the previous spring term regarding the making of a summer collection for study during the course. This course includes scheduled field trips as a required course component.

*Prerequisites:* BIOL 101-4 and BIOL 102-4

**BIOL 302-3 Limnology** Ecology of aquatic systems, their chemical, physical and biological characteristics.

*Prerequisites:* BIOL 201-3

**BIOL 303-3 Plant Physiology** Growth and development, water and energy relations, photosynthesis, mineral nutrition, membrane and plant transport.

*Prerequisites:* BIOL 204-3, CHEM 101-3 and PHYS 101-4 or PHYS 111-4 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 101-4 and 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 101-4 and 102-4

**BIOL 311-3 Cell and Molecular Biology** Cellular structure and function, molecular genetics, genome organization, and gene regulation in eukaryotic and prokaryotic organisms.

*Prerequisites:* BIOL 210-3 and one of CHEM 204-3 or 220-3

**BIOL 312-3 Molecular Cell Physiology** This course examines the molecular basis of cellular processes from cell-division to cell signalling, cell and tissue interactions, cellular mechanisms of development, cell differentiation, and the immune system.

*Prerequisites:* BIOL 311-3

*Precluded:* BIOL424-3

**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 323-3 Evolutionary Biology** This course covers the mechanisms and processes of evolution of biological organisms. It discusses the evolutionary principles from Darwinism to molecular evolution.

*Prerequisites:* BIOL 201-3 and 210-3

*Precluded:* BIOL 403-3

**BIOL 325-3 Ecological Analyses** This course is an introduction to the application of analytical methods for addressing common ecological problems. Particular emphasis is placed on: sampling design, formulating hypotheses, statistical inference and the writing of abstracts. Students learn to analyze data by applying the scientific method to ecological research.

*Prerequisites:* BIOL 201-3 and MATH 342-3

**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:* NREM 333-3 and ORTM 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

**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

**BIOL 404-3 Plant Ecology** The ecology of terrestrial plants and ecosystems. Structure, function, classification, and analytical tools for describing 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

**BIOL 410-3 Population and Community Ecology** This course is an advanced treatment of population and community ecology including theoretical and applied aspects of structure and dynamics.

*Prerequisites:* BIOL 325-3

**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 201-3 and 210-3

**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

**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 and 412-3

*Recommended:* NREM 204-3

**BIOL 414-3 Fisheries Management** Management of freshwater and anadromous fishes of British Columbia.

*Prerequisites:* BIOL 406-3

*Recommended:* NREM 204-3

**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 101-4 and 102-4, or permission of the instructor

**BIOL 423-3 Molecular Evolution and Ecology** This course is lecture and laboratory based and focuses on the evolution of macromolecules, the reconstruction of the evolutionary history of species, populations, or genes, and the use of genetic information to gain insights into the ecology of species.

*Prerequisites:* BIOL 323-3

**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, genomics/bioinformatics, biotechnology and molecular ecology.

*Prerequisites:* BIOL 311-3

*Recommended:* CHEM 308-3 and BIOL 423-3

**BIOL 440-(2-6) Internship** May be repeated for credit (maximum six credit hours).

**BIOL 498-(3-6) Special Topics** This course covers selected biological topics and may be repeated for credit (maximum 6 credit hours).

*Prerequisites:* Permission of the instructor and Program Chair

**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 enroll in CHEM 120-1 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 enroll in CHEM 121-1 concurrently.

*Prerequisites:* CHEM 100-3 and Principles of Math 12; MATH 115-3 (or equivalent) may substitute for Principles of Math 12

# Course Descriptions: Chemistry

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**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 120-1 General Chemistry Lab I** A laboratory 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 121-1 General Chemistry Lab II** A laboratory 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 120-1, 101-3 (may be taken concurrently)

**CHEM 200-3 Physical Chemistry I** Fundamental concepts of classical thermodynamics, thermochemistry, chemical and phase equilibria.

*Prerequisites:* CHEM 101-3, 121-1, 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 enroll in CHEM 250-1 concurrently.

*Prerequisites:* CHEM 101-3, 121-1 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, 121-1 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 enroll in CHEM 251-1 concurrently.

*Prerequisites:* CHEM 201-3

**CHEM 204-3 Introductory Biochemistry** A lecture based course designed to introduce the basic principles of biological chemistry, focusing on the structure, composition and role of proteins, nucleic acids, carbohydrates and lipids in living systems. Other major topics include the nature and functions of enzymes, principles of bioenergetics and the energy-trapping metabolic pathways and their regulation in animals and plants.

*Prerequisites:* CHEM 201-3, BIOL 101-4 and BIOL 102-4

*Co-requisites:* CHEM 203-3

**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, 121-1

**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:* Students may not take 220-3 if they have previously taken CHEM 201-3, 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 121-1

*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 255-1 Biochemistry Lab I** This is a laboratory based course exploring the basic biochemical and molecular biological laboratory techniques. Topics include buffers, calculations in biochemistry, spectroscopy, enzyme kinetics and lipids.

*Prerequisites:* CHEM 201-3

*Co-requisites:* CHEM 204-3

**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, 121-1. 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.

*Prerequisites:* PHYS 205-3

*Co-requisites:* MATH 201-3

*Precluded:* PHYS 302-3

**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 Intermediary Metabolism** A lecture based course emphasizing the importance of biochemical pathways and macromolecules in physiological systems. Topics include metabolism of amino acids, lipids, carbohydrates, nucleotides and how these pathways are interrelated at tissue and organ levels.

*Prerequisites:* CHEM 204-3

**CHEM 307-3 Proteins** A lecture based course designed to provide in-depth knowledge of contemporary protein biochemistry, and its applications. Major topics include structure and function of protein, protein purification, protein sequencing, protein metabolism, protein biotechnology, proteomics and techniques applied to proteins.

*Prerequisites:* CHEM 204-3

**CHEM 308-3 Biochemistry Lab II** A laboratory based course exploring modern biochemical and molecular biological laboratory techniques. Topics include purification and characterization of proteins and nucleic acids. Techniques include centrifugation, chromatography, gel electrophoresis, Western blotting, Northern blotting, in-vitro transcription and translation.

*Prerequisites:* CHEM 255-1 and either CHEM 204-3 or CHEM 220-3

**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 315-3 Physical Chemistry Lab** This is a laboratory course in physical chemistry consisting of six hours of laboratory work weekly. The course covers the fundamental aspects of physical chemistry such as spectroscopy, thermodynamics, equilibrium, and kinetics.

*Prerequisites:* CHEM 200-3

*Precluded:* CHEM 313-1.5 and CHEM 314-1.5

**CHEM 315-3 Physical Chemistry Lab** This is a laboratory course in physical chemistry consisting of six hours of laboratory work weekly. The course covers the fundamental aspects of physical chemistry such as spectroscopy, thermodynamics, equilibrium, and kinetics.

*Prerequisites:* CHEM 200-3

*Precluded:* CHEM 313-1.5 and CHEM 314-1.5

**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

## Course Descriptions: Chemistry

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**CHEM 330-3 Nucleic Acids** A lecture based course designed to provide in-depth knowledge of contemporary nucleic acid biochemistry, and its application. Major topics include structure and function of DNA and RNA, small molecules nucleic acid interactions, protein nucleic acid interactions, catalytic RNA, techniques applied to nucleic acids and post-transcriptional control of gene expression.

*Prerequisites:* CHEM 204-3

**CHEM 340-3 Physical Biochemistry** This is a lecture based survey course designed to provide students with a basis for understanding the physical aspects of Biochemistry. Topics include biological applications of thermodynamics, chemical and biochemical kinetics, electrochemical equilibria, cell membrane potentials, oxidative phosphorylation, transport processes, photochemistry, and photosystem II.

*Prerequisites:* CHEM 204-3

*Co-requisites:* CHEM 255-1

*Precluded:* CHEM 230-3

**CHEM 400-3 Topics in Environmental Chemistry** This course considers advanced and selected topics in chemistry. Topics depend on instructor and student interest and normally focus on advanced material not dealt with in other courses. Note: Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, and either the 400 or 600 level or a combination of both may be repeated to a maximum of 6 credit hours, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or College 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** This course considers advanced and selected topics in organic chemistry. Topics depend on instructor and student interest and normally focus on advanced material not dealt with in other courses. Note: Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, and either the 400 or 600 level or a combination of both may be repeated to a maximum of 6 credit hours, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or College Dean).

*Prerequisites:* one of CHEM 301-3 or 304-3

**CHEM 403-3 Topics in Inorganic Chemistry** This course considers advanced and selected topics in inorganic chemistry. Topics depend on instructor and student interest and normally focus on advanced material not dealt with in other courses. Note: Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, and either the 400 or 600 level or a combination of both may be repeated to a maximum of 6 credit hours, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or College Dean).

*Prerequisites:* one of CHEM 320-3 or 321-3

**CHEM 404-3 Topics in Physical Chemistry** This course considers advanced and selected topics in physical chemistry. Topics depend on instructor and student interest and normally focus on advanced material not dealt with in other courses. Note: Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, and either the 400 or 600 level or a combination of both may be repeated to a maximum of 6 credit hours, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or College Dean).

*Prerequisites:* one of CHEM 300-3 or 305-3

**CHEM 405-3 Topics in Biochemistry** This course considers advanced and selected topics in biochemistry. Topics depend on instructor and student interest and normally focus on advanced material not dealt with in other courses. Note: Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, and either the 400 or 600 level or a combination of both may be repeated to a maximum of 6 credit hours, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or College Dean).

*Prerequisites:* CHEM 330-3

*Co-requisites:* CHEM 307-3

**CHEM 406-3 Advanced Laboratory 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 Advanced Laboratory 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:* CHEM 406-3

**CHEM 408-3 Environmental Chemistry II** An advanced treatment of selected topics in environmental chemistry. 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:* CHEM 302-4

# Course Descriptions: Chemistry, Co-operative Education, Commerce

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**CHEM 409-3 Enzymology** A lecture based course emphasizing the importance and the role of enzymes in biochemistry and molecular biology. Topics include kinetic analysis, mechanisms of enzyme action, regulation of enzyme activity and clinical aspects of enzymology.

*Prerequisites:* CHEM 307-3  
*Co-requisite:* CHEM 330-3

**CHEM 410-3 Topics in Analytical Chemistry** This course provides 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, and either the 400 or 600 level or a combination of both may be repeated to a maximum of 6 credit hours, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or College Dean).

*Prerequisites:* CHEM 310-3

**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

## Co-operative 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-ordinators and Program Chair. Minimum GPA 2.50.*

**COOP 395 Co-op Work Semester I** First term co-operative work experience.

*Prerequisites:* none

**COOP 396 Co-op Work Semester II** Second term co-operative work experience.

*Prerequisites:* COOP 395

**COOP 397 Co-op Work Semester III** Third term co-operative work experience.

*Prerequisites:* COOP 396

**COOP 398 Co-op Work Semester IV** Fourth term co-operative work experience.

*Prerequisites:* COOP 397

**COOP 399 Co-op Work Semester V** Fifth term co-operative work experience.

*Prerequisites:* COOP 398

## Commerce/School of Business

*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.*

*Students enrolling in any Commerce Course with prerequisites are required to have completed all prerequisite courses for that course with a C- or better, or have permission to enroll from the Program Chair.*

**COMM 100-3 Introduction to Canadian Business** This course is an 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 of Commerce courses 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. Students need a basic understanding of a spreadsheet application.

*Prerequisites:* COMM 100-3

**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, COMM 210-3, and ECON 205-3; MATH 242-3 may substitute for ECON 205-3

**COMM 230-3 Organizational Behaviour** This course provides an introduction to the study of people and groups in organizations. Topics include perceptions, personality, learning, work motivation, job attitudes, group dynamics, and leadership.

*Prerequisites:* COMM 100-3

**COMM 240-3 Introduction to Marketing** This course is an introduction to the study of marketing in the context of social, consumer, and managerial processes. In this course, students study how marketing decisions concerning the choice of target markets, the development of product/services, price, promotion and distribution strategies influence the evolution of the exchange process and the satisfaction of buyer needs.

*Prerequisites:* COMM 100-3

## Course Descriptions: Commerce

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**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, and ECON 205-3; MATH 242-3 may substitute for ECON 205-3

**COMM 300-3 Introduction to Business Law** This course provides an introduction to the general principles of law relating to contract and tort. Special contracts 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 will be discussed.

*Prerequisites:* COMM 100-3

**COMM 302-3 Entrepreneurship** This course 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:* COMM 240-3

**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:* COMM 240-3

**COMM 304-3 Employment Law in Canada** The purpose of this course is to foster an understanding of the legal context of the relationship between employer and employee, and of the duties and responsibilities in that relationship. The laws surrounding human rights, employment standards, health and safety, grievance and arbitration, and dismissal are examined.

*Prerequisites:* COMM 300-3 or POLS 255-3

**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, COMM 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 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, and ECON 205-3; MATH 242-3 may substitute for ECON 205-3

**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** This course focuses on ethical philosophies and their application to specific ethical issues of relevance to work organizations and to the demands of multiple stakeholders.

*Prerequisites:* none

**COMM 333-3 Women in Organizations** This seminar course 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, ECON 100-3, and ECON 101-3, or permission of the instructor.

*Precluded:* ECON 301-3

**COMM 334-3 Strategic Human Resource Planning** This course examines the leadership role that a human resources professional plays in developing the organization's vision, goals, and strategies and the human resource initiatives that support these strategic directions. Students acquire capabilities in job analysis and human resources planning, which provides the informational foundation for all of human resources management.

*Prerequisites:* COMM 330-3

**COMM 335-3 Organization Effectiveness** Students learn how to develop high performance work programs that support organizational culture and goals. Students acquire an understanding of an organization's relationship to its external environment; the principles of organizational design, structure, and change; and the strategies for employee communication, retention and involvement.

*Prerequisites:* COMM 330-3

**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 Behavioural Marketing** This course examines the psychological, social, and cultural factors that influence consumer cognition, feelings, attitudes and behaviour by introducing concepts, principles and theories drawn from marketing and related social science disciplines. Students learn from a managerial decision-making perspective and investigate the implications of consumer behaviour for all stages of the marketing process, including product development, marketing communications, and post-sales services.

*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 250-3, and ECON 205-3; MATH 242-3 may substitute for ECON 205-3

## Course Descriptions: Commerce

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**COMM 400-3 Strategic Management** This integrative course focuses on the core concepts and analytical tools of strategic planning and implementation. The materials presented cover the changes in competitive markets and company strategies that are being driven by globalization and technological innovation. The course includes extensive use of case analysis and features a wide range of business types and sizes.

*Recommended:* This course is 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** This course focuses on three to five topics related to the material presented in COMM 230-3 Organizational Behaviour. As the course content may vary with each offering, students can consult the instructor/program for information concerning topics.

*Prerequisites:* COMM 230-3

**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

**COMM 433-3 Recruitment, Selection, Retention** This course develops the knowledge and skills to recruit and select employees who will contribute to the success of an organization. The concepts and techniques of recruitment, selection, orientation, and deployment are examined from legal, ethical, cultural, and strategic perspectives.

*Prerequisites:* COMM 330-3 and COMM 334-3

**COMM 434-3 Compensation** This course develops the knowledge and skills to design and administer compensation and benefit programs that attract and retain employees and support organizational goals. Labour markets, job evaluation, internal and external equity, and communication and confidentiality are examined from legal, ethical, cultural, and strategic perspectives.

*Prerequisites:* COMM 334-3

# Course Descriptions: Commerce, Computer Science

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**COMM 435-3 Organizational Learning, Development and Training** This course develops the knowledge and skills to design, implement, and evaluate training and development programs that will enable employees to fulfill their potential and contribute to the goals of an organization. Principles of adult learning, coaching and counseling, program design and evaluation, and career planning are examined from legal, ethical, cultural, and strategic perspectives.

*Prerequisites:* COMM 334-3

**COMM 436-3 Workplace Health and** This course develops the knowledge and skills to design, manage and evaluate programs in the areas of health, safety, security, and worker's compensation to ensure the protection and well-being of employees. The joint responsibilities and rights of employers, unions, and employees, the identification of risks and hazards in the environment, the development of training programs and preventative measures, accident investigation, the accommodation of disabled workers, the provision of wellness and employee assistance programs, and information management systems are discussed from legal and ethical perspectives.

*Prerequisites:* COMM 334-3

*Preclusions:* HHSC 370-3 Occupational Health

**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, COMM 343-3, and ECON 205-3; MATH 242-3 may substitute for ECON 205-3

**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 451-3 Project Management** This course considers behavioural and structural aspects of projects, study of project life cycles, project planning, scheduling, budgeting, resource loading, resource levelling, resource planning, and cost estimation and crashing, project monitoring and controlling, project evaluation, auditing and termination. Project management related exercises, case studies and use of project management software are the practical aspects of the course.

*Prerequisites:* COMM 350-3 or with the permission of the instructor.

## **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 enroll in any Computer Science course with permission of the Program Chair.*

*Note: 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.*

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

# Course Descriptions: Computer Science

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**CPSC 100-4 Computer Programming I** This course introduces the fundamental concepts of programming from an object-oriented perspective. Topics include fundamentals of programming style, syntax, data types, arithmetic and logical expressions, assignments, control structures, arrays, functions, file i/o, classes, inheritance, and dynamic storage allocation. The course emphasizes the development of problem solving and programming skills, including testing techniques and the use of debugging tools. Students must also register in a lab and in a tutorial section.

*Prerequisites:* Principles of Math 12 or MATH 115-3

*Precluded:* Credit will not be awarded for both CPSC 110-3 and CPSC 100-4. Refer to major for required courses.

**CPSC 101-4 Computer Programming II** This course is a continuation of CPSC 100-4. Objects, classes, inheritance and polymorphism are discussed in depth. Other topics include object-oriented program design and development; dynamic storage allocation, the heap, and garbage collection; run-time support for program execution; and the use of standard libraries. Students work cooperatively to complete a medium-sized project. This course requires both tutorial and laboratory components.

*Prerequisites:* CPSC 100-4 and CPSC 141-3

**CPSC 110-3 Introduction to Computer Systems and Programming** The course provides an introduction to computer systems and programming, 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. Programming 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. CPSC 110-3 Cannot be counted as a computer science course by computer science majors.

*Prerequisites:* Principles of Math 12 or MATH 115-3

*Precluded:* Credit will not be awarded for both CPSC 110-3 & CPSC 100-4. Refer to major for required course.

**CPSC 126-3 Introduction to Computer Systems** The objective of this course is to provide a breadth-first introduction to the discipline of computer science. Problem solving. Algorithms: formal definition, representations, control structures, examples and efficiency analysis. Hardware design: number systems, binary arithmetic, boolean logic, truth tables, logic gates, basic circuit design algorithms and design of simple circuits. Computer system organization: von Neumann architecture. Programming in machine assembly and high level languages. Language translation: assembler, compilation process and program debugging. System software. Theory of computing. Supporting lab software will be used.

*Prerequisites:* Math 12 or Principles of Math 12 or Math 115-3

**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 142-3 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

*Precluded:* CPSC 241-3

**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 Algorithm Analysis and Development** Topics include asymptotic complexity and notation. Algorithm analysis. Comparison of various sorting algorithms. NP completeness. Assertions, loop and data type invariants and an introduction to program correctness. Correctness proofs of simple programs. Recursion relationships. Applications.

*Prerequisites:* CPSC 101-4 and 142-3

**CPSC 230-4 Introduction to Logic Design** Topics include principles of digital circuit design, boolean algebra, basic switching functions and gate-level implementation, canonical forms, algebraic simplifications, Karnaugh maps, Quine-McCluskey tables, voltage assignments, logic technologies, combinational logic circuits, decoders, encoders, multiplexers, demultiplexers, comparators, adders, sequential logic circuits, clocked flip-flops, registers, counters, register transfer logic, central processing unit, instruction set, addressing modes, arithmetic and logic units, control unit, bus organization.

*Prerequisites:* CPSC 100-4, CPSC 142-3

**CPSC 231-4 Computer Organization and Architecture** Topics include computer abstractions and technology, characteristics of good computer architecture, instruction set architecture, Reduced Instruction Set Computers (RISC), Complex Instruction Set Architecture (CISC), CPU, memory system, acceleration mechanisms, I/O system, multiprocessors, Single Instruction Multiple Data (SIMD) machines, Multiple Instructions Multiple Data (MIMD) machines.

*Prerequisites:* CPSC 230-4



**CPSC 250-3 Applied Business Computing** This course examines core computing knowledge and techniques as they apply to business applications. The course covers database design and information retrieval techniques with emphasis on web-database integration, advanced features of spreadsheets, recording/analyzing basic business transactions using a variety of accounting software, and implementation of selected financial models. Presentational and interface design techniques are also covered. Students complete a term project that solves a typical business problem using the software and procedures of their choice. This course may not be counted as a computer science course by computer science majors.

*Prerequisites:* None. Basic knowledge of computers and experience with browsing the World Wide Web is preferable.

*Co-requisites:* COMM 210-3, if not already completed.

**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** Topics include program performance, data representation, arrays and matrices, lists, stacks and queues, skip lists and hashing, binary trees, balanced and B-trees. AVL trees, splay trees, tree traversals using stacks, expression trees, prefix, infix, and postfix expressions and conversions, priority queues and heaps, search trees, Hoffman codes, graphs, graph algorithms, (weighted and unweighted shortest-path, Dijkstra's algorithm, critical paths), minimum-cost spanning trees (Prim's, Kruskal's, and Sollin's algorithms). Implementation of various data structures using object-oriented programming language.

*Prerequisites:* CPSC 200-3

**CPSC 290-3 Systems Analysis and Design** Topics include introduction to the basic concepts, ideas and tools involved in the analysis and design phases of software systems development. Comparing and contrasting software systems with other types of systems, the evolution of software system design approaches, basic concepts used to handle complexity and change in software systems, modelling with UML, requirements elicitation. Systems analysis: overview, concepts, activities, and examples. Systems design: overview, concepts, activities, and examples.

*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 enroll 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** This course is a general introduction to programming languages. Topics include: Formal grammars, Extended Backus-Naur Form (EBNF), and syntax diagrams; lambda calculus, Floyd-Hoare logic, and denotational semantics; data types, memory models, control structures, definitions, and binding; abstraction and parameter passing; programming paradigms; language design and evaluation; and case studies. Assignments include laboratory work.

*Prerequisites:* CPSC 231-4 and CPSC 281-3, or permission of the instructor.

*Recommended:* CPSC 340-3

**CPSC 321-3 Operating Systems** Tasking and processes, process coordination 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, MATH 340-3

**CPSC 322-3 Introduction to Concurrent and Distributed Programming** This course introduces the core concepts, techniques, and tools for concurrent and distributed programming. It covers concurrent programming in shared memory systems and distributed programming in message passing systems. After introducing the necessary concepts, various coordination problems are discussed and then solved using different synchronization mechanisms. Relevant programming environments are introduced and the students will gain hands-on experience through programming assignments in both shared memory systems and message passing systems.

*Prerequisites:* CPSC 231-4 and CPSC 281-3

# Course Descriptions: Computer Science

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**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 281-3, CPSC 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 142-3

**CPSC 350-3 Introduction to Computer Graphics** This course provides an overview of Computer Graphics and covers topics such as Basic Raster Graphics Algorithms for Drawing 2D Primitives, Transformations, 3D Viewing, Visible-Surface Detection, Illumination and Rendering, Visualization and Animation.

*Prerequisites:* MATH 220-3 and CPSC 281-3

**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 142-3 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 401-3 Software Engineering for Real-Time Systems** This course introduces typical real-time applications including hard vs. soft real-time systems. A reference model for real-time systems is developed. Other topics covered include scheduling of periodic and aperiodic tasks, resource access control, multiprocessor scheduling and synchronization, real-time aspects of operating systems and communication protocols, software engineering methods for real-time systems, and representing real-time concepts with Unified Modelling Language (UML). Software tools for development of real-time systems are introduced.

*Prerequisites:* CPSC 290-3 and CPSC 321-3

*Recommended:* CPSC 300-3

**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, 1NF, 2NF, 3NF and BCNF. A relational DBMS and data processing software will be used for understanding SQL and other concepts.

*Prerequisites:* CPSC 142-3, 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 architecture.

*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 architecture.

*Prerequisites:* CPSC 321-3, or permission of the instructor

**CPSC 442-3 Parallel Computing** Classification of parallel architecture. 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 443-3 Mobile Computing** This course provides an overview of Internet, TCP/IP and the field of mobile computing. The topics covered in detail include IEEE 802.11 Wireless LANs, Physical Layer for CDMA and OFDM, MAC Layer for CSMA/CA, 2.5G and 3G cellular architectures, Physical Layer for cellular networks (CDMA, TDMA and OFDM), MAC layer for CDMA and TDMA based cellular networks, Mobile IPv4/v6, and Application Layer (IP Multimedia Subsystem, Multimedia Messaging, Location-Based Services).

*Prerequisites:* This course must be taken in the 4th year of studies

*Co-requisites:* CPSC 440-3 or permission of the instructor

**CPSC 450-3 Bioinformatics** Bioinformatics studies the development of computational techniques for solving biological problems. The course introduces students to the computational analysis of biological sequence data and presents an overview of the research, its applications, and the methods used to analyze the vast amounts of biological information. The topics covered include an introduction to bioinformatics, DNA, Markov chains, gene algorithms, string matching, pairwise alignment, multiple sequence alignment, grammatical framework, hidden Markov models, protein secondary structure, protein 3D structure, RNA structure, and database searching. General programming skills (e.g. Perl) are required.

*Co-requisites:* CPSC 422-3 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 enrollment. 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 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. May be retaken any number of times, provided all topics are distinct.

*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. May be retaken any number of times, provided all topics are distinct.

*Prerequisites:* permission of the instructor

# Course Descriptions: Core, Economics

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## 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

**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

*Precluded:* 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 110-3 Introduction to Health Economics and Policy** This course provides a general understanding of health and health care from an economic perspective. It introduces models of health production and discusses the socio-economic determinants of health. Topics considered in the course may include the efficient and equitable allocation of scarce resources in health, alternative methods of health care financing and delivery, the effect of health uncertainty on insurance, and the effects of externalities and information asymmetries in the health sector on the behaviour of health care providers and receivers. Issues of health policy in Canada, including those for remote and rural areas, and other countries are examined.  
*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** This course examines 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 are 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 or COMM 230-3

*Precluded:* COMM 333-3

**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 305-3 Environmental Economics** 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 Economies 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, MATH 152-3, 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, 152-3, 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, 152-3, 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 331-3 Forest Economics** Economic analysis of private and public forest management. Topics include the measurement of timber and non-timber values, multiple use management, and the regulation of forest practices.

*Prerequisites:* ECON 100-3, ECON 101-3 or permission of the instructor

*Precluded:* ECON 330-4, FSTY 310-3

**ECON 401-3 Global Economy** This course analyzes the evolution of, and assesses competing theories of, the world economy. Particular attention is paid to analyzing the "new globalism" of the 1990s and examining the implications for policy makers.

*Prerequisites:* ECON 100-3, ECON 101-3, and ECON 311-3 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 404-3 Poverty, Inequality and Development** This course examines the dimensions and causes of poverty and inequality. It analyzes development strategies aimed at reducing poverty and inequality.

*Prerequisites:* ECON 100-3, ECON 101-3, and ECON 310-3 or permission of the instructor

# Course Descriptions: Economics, Education

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**ECON 405-3 Topics in Environmental Economics** An in-depth examination of selected topics in Environmental Economics.

*Prerequisites:* ECON 305-3

**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.

*Prerequisites:* ECON 100-3, 101-3, or permission of the instructor  
*Precluded:* ECON 307-3

**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

**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

**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

## **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

## Education

**EDUC 101-3 Introduction to Education** This course is intended to provide students with an understanding of the basic issues facing elementary and secondary teachers in Canadian schools. The topics to be covered include social, emotional, cognitive and physical development, classroom management, social and economic issues, gender, multiculturalism, teacher characteristics, special needs, and reflective practice. It introduces students to the values, concepts, expectations, and responsibilities of classroom teachers. The course will also acquaint students with the British Columbia Teachers' Federation Guide to Professional Practice.

**EDUC 176-3 Mathematics and Aboriginal Culture** This course explores the use of mathematics within cultural contexts. The focus is primarily on Aboriginal perspectives, and the use of math as it pertains to daily life and traditional practices. Attention is given to classroom applications and hands-on learning.

**EDUC 187-3 Science and Aboriginal Culture** This course is an exploration of how science is used and understood within cultural practice. The focus is primarily on the integration of the scientific method and Aboriginal ways of knowing, combining current scientific theory with cultural knowledge. Attention is given to classroom applications and hands-on learning.

**EDUC 201-3 Education Theory and Practice** In this course, students will extend their understanding of contemporary educational issues. The course introduces theoretical models of curriculum and instruction, as well as provincial curricular guidelines. Classroom observation in a variety of settings forms a substantial component of the course. Students will reflect on practical aspects of teaching and learning, and they will identify their own beliefs and aims with respect to teaching. This course builds on and complements the topics addressed in EDUC 101-3.

*Prerequisites:* EDUC 101-3

Note: This course is a general introductory course and not part of the BEd program, Post-Degree Bachelor of Education Program

**EDUC 313-1 Interpersonal Communication** An introduction to basic interpersonal communication skills applicable to teaching across the grade levels. The course focuses on developmentally appropriate and effective communication in one-to-one, small-group, and whole-class contexts when listening, imparting information, giving instructions, and facilitating discussion. Other topics include: understanding diverse perspectives, establishing equitable discourse opportunities, reflective listening, negotiation, and problem-solving.

**EDUC 315-4 Curriculum & Instruction: II (Business and Career Education)** Curriculum and instruction methods for the senior years, including accessing, selecting, and developing curricular materials; and planning, instructional, and evaluation methods pertaining to the teachable subject areas.

*Prerequisite:* EDUC 360-4

**EDUC 333-2 Learning, Development & Motivation** Human social, emotional, cognitive, linguistic, and physical development and learning across the lifespan. In particular, the emphasis is children's and adolescents' development during the school years and implications for teaching and learning. Topics will include: theories of development; age-related social, behavioural, and academic expectations; developmental diversity; social, cultural, and gender bases of identity; and the teacher's role in creating developmentally appropriate, nurturing environments for learning. Students will complete a term project relevant to their educational stream (Early Years or Senior Years).

**EDUC 340-2 Curriculum Development Models** Practical approaches to the development and evaluation of curricula, placed within a theoretical framework. Topics will include epistemological foundations of curriculum, curricular integration and disciplinarity, sociocultural perspectives and equity, collaborative development, evaluative purposes and approaches, curricular leadership, and the teacher as researcher. This course prepares students for curriculum and instruction pedagogy courses in specific subject areas.

**EDUC 341-2 Principles of Instruction** Theoretical foundations and practical applications of instructional psychology. The course will address: contemporary theories of learning, models of memory and cognition, learning strategies, teaching effectiveness, instructional planning, classroom processes, teaching to accommodate individual differences, and the cultural psychology of education.

**EDUC 342-2 Social Dynamics of Classrooms** This course addresses the social dynamics of classrooms and introduces contemporary approaches to classroom management. Through a combination of lecture, discussion, small group activities, and case analysis, we will address the following central topics: foundations of classroom management, interpersonal relationships in classrooms, effective instruction to promote learning and motivation, classroom organization and management, and approaches to exceptional cases. Students will interrogate their own assumptions about the roles of teachers and students, and will develop practical strategies for classroom management and discipline.

**EDUC 345-4 Language & Literacy Across the Curriculum** In this course, Senior Years students will study the role of language as medium of teaching and learning, and develop approaches to integrating spoken and written language across subject areas to enhance learning. The course includes a substantive focus on English as a Second Language/English as a Second Dialect. Other topics include: the nature of language, classroom discourse, narratives, and journals, construction of meaning, writing and cognition, and diverse oral and literate traditions. The course includes a focus on strategies for integrating language within specific subject areas.

**EDUC 346-2 Introduction to Aboriginal Education** This course introduces the diverse meanings of the term "Aboriginal education." The concepts of power, control, and culture will help the students analyze contemporary issues surrounding Aboriginal education and Western education. Topics include: historical analysis, current models, defining Aboriginal education, and contemporary issues. Students will build their knowledge and understanding of Aboriginal approaches to education.

**EDUC 351-2 Curriculum & Instruction: Second Language (EY)** Curriculum and instruction methods for teaching a second language in the Early Years. The language offered may be French, or another provincially approved second language, such as a local First Nations language.

**EDUC 356-2 Language & Literacy: Development (EY)** An introduction to the nature of language and literacy, and their development prior to and during the early years of schooling. The course will focus on the components of language, how they develop in oral and written forms, and diversity among learners in language and literacy development. Students will learn the curricular expectations for grades K to 5 for listening, speaking, reading, writing, and spelling, and will be introduced to instructional strategies for oral language and emergent/early literacy.

**EDUC 357-3 Language & Literacy: Reading & Writing (EY)** Theoretical models of reading, spelling, and writing processes during the early years. It will also include practical skills and experience in assessing reading, writing, and spelling, planning instruction in these areas, using curricular and other resources for teaching, and adapting reading, spelling, and writing instruction for diverse learners.

*Prerequisite:* EDUC 356-2

## Course Descriptions: Education

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### **EDUC 360-4 Curriculum & Instruction: Introduction (SY)**

Curriculum and instruction methods for the Senior Years, including accessing, selecting, and developing curricular materials; and planning, instruction, and evaluation methods pertaining to the teachable subject areas.

*Pre- or Co-requisite:* EDUC 340-2

### **EDUC 361-4 Curriculum & Instruction: II (Humanities and Social Sciences)**

Curriculum and instruction methods for the Senior Years, including accessing, selecting, and developing curricular materials; and planning, instruction, and evaluation methods pertaining to the teachable subject areas.

*Prerequisite:* EDUC 360-4

### **EDUC 366-2 Curriculum & Instruction: Social Studies (EY)**

The theory and practice of social studies education in the early years, including objectives, teaching and assessment approaches, curricular models, and resources/materials. Students will examine the nature and purposes of social studies, and will become familiarized with the BC social studies curriculum for the early years, as well as with accessing, selecting, and developing curricular materials. The course will emphasize strategies for thematic instruction, and integration of social studies themes across the curriculum.

### **EDUC 370-3 Numeracy Across the Curriculum (SY)**

An exploration of the role of numeracy in society and across disciplines. This course includes strategies for fostering quantitative literacy across Senior Years subject areas.

### **EDUC 372-4 Curriculum & Instruction: II (Math, Computers, and Sciences)**

Curriculum and instruction methods for the Senior Years, including accessing, selecting, and developing curricular materials; and planning, instruction, and evaluation methods pertaining to the teachable subject areas.

*Prerequisite:* EDUC 360-4

### **EDUC 376-2 Numeracy: Math Concepts (EY)**

This course prepares prospective teachers to teach early years mathematics by 1) improving their knowledge of mathematics, 2) introducing them to the development of numeracy in young children, 3) familiarizing them with the BC mathematics curriculum for the early years; and 4) building connections between mathematical knowledge, development, curricular guidelines, and instructional strategies.

### **EDUC 377-2 Numeracy: Instructional Strategies (EY)**

Topics include accessing, selecting, and developing curricular materials; and planning, instruction, and evaluation methods pertaining to early years mathematics. Instructional strategies will emphasize problem solving, learning with manipulatives, mathematical language, group work, and other process-oriented approaches, as well as choosing and using resources such as math manipulatives and Montessori materials, print materials, computer software, videos, and calculators. Students also will explore ways to integrate numeracy across the curriculum, such as through thematic instruction.

*Prerequisite:* EDUC 376-2

**EDUC 380-3 Foundations of Education** Introduction to the historical, philosophical, psychological, and sociological foundations of education. Students will reflect on their beliefs about education and teaching, including their assumptions about gender, culture, race, and social class. This course will include an emphasis on the historical roots of present educational institutions and approaches, and change processes in education as applied to contemporary Canadian social and educational contexts.

**EDUC 387-2 Curriculum & Instruction: Science (EY)** Students will be introduced to the theory and practice of teaching children science, and the BC curriculum. The course addresses curriculum and instruction methods for the early years, including accessing, selecting, and developing curricular materials and activities; and planning, instruction, and evaluation methods pertaining to early years science. Students also will explore ways to integrate science across the curriculum, such as through thematic instruction.

**EDUC 390-3 Classroom Practice and Seminar I** Three-week-equivalent practicum, comprising observations and supervised practical experience in a school, along with weekly seminars with team members addressing ongoing practice issues such as: practical skills, case management, reflection, problem-solving, accessing resources, professional issues, teacher research, and portfolio development. Graded on a Pass/Fail basis.

*Pre- or Co-requisite:* Secondary Years: EDUC 360-4; Elementary Years: EDUC 356-2 and 376-2

**EDUC 391-3 Classroom Practice and Seminar II** Three-week-equivalent supervised practical experience in a school, along with weekly seminars with team members addressing ongoing practice issues such as: practical skills, case management, reflection, problem-solving, accessing resources, professional issues, teacher research, and portfolio development. Graded on a Pass/Fail basis.

*Prerequisite:* EDUC 390-3

*Pre- or Co-requisite:* Secondary Years: EDUC 345-4, 370-3, and one of EDUC 315-4, 361-4, or 372-4; Elementary Years: EDUC 351-2, 357-3, 366-2, 377-2, and 387-2

**EDUC 395-1 Professional Issues: Legal & Ethical** This seminar will build on the professional guidelines introduced throughout the program, and explored in the Classroom Practice seminars. The course will examine legal and ethical issues pertinent to the professional practice of teachers in the BC public school system, including obligations, policies, and abilities related to contemporary social issues. Students also will be introduced to the expectations and processes for building their professional portfolio over the two years of the program.



**EDUC 396-2 Reflective Seminar** In this course, students reflect on their experiences in Aboriginal Language and Culture classrooms and compare those teaching contexts with curriculum and instruction expectations in cross-curricular classrooms. The course reviews theoretical models of curriculum and instruction and provincial curricular guidelines across the elementary curriculum.

*Prerequisite:* An Education Diploma in a First Nations Language and Culture, or equivalent.

*Precluded:* EDUC 346-2

### **EDUC 406-3 Curriculum & Instruction: Fine Arts (EY)**

Introduction to the role of music, visual arts, dance, and drama in teaching and learning during the early years. The course includes a focus on appreciating the arts of our diverse communities and understanding children's expressive development, as well as practical approaches to teaching these arts, using tools for art-making, and providing contexts for the performance arts. Strategies for incorporating music, imagery and performance across the curriculum will be emphasized.

**EDUC 413-1 Counselling Skills (EY)** An introduction to the role of the classroom teacher related to collegial work with counsellors, support personnel, school-based teams, and families. Topics include: working with parents, working with the school-based team, understanding the role of the school counsellor, communicating with teaching assistants, and accessing resources; as well as teaching career and personal planning from K-8.

**EDUC 414-5 Curriculum & Instruction: III (Business and Career Education)** Curriculum and instruction methods for the senior years, including accessing, selecting, and developing curricular materials; and planning, instructional, and evaluation methods pertaining to the teachable subject areas.

*Prerequisite:* EDUC 315-4

**EDUC 415-3 Curriculum & Instruction: IV (Business and Career Education)** Curriculum and instruction methods for the senior years, including accessing, selecting, and developing curricular materials; and planning, instructional, and evaluation methods pertaining to the teachable subject areas.

*Prerequisite:* EDUC 414-5

**EDUC 421-3 Classroom Assessment Practices** A critical examination of the purposes, utility, and limitations of classroom assessment and evaluation. Students will learn to select appropriate assessment processes and instruments to evaluate the academic, social, and emotional abilities/needs of the children/adolescents in their classrooms and to plan to evaluate instruction. They will learn to design and interpret assessment processes and instruments, and to implement a fair grading system. The course will include a focus on authentic assessment, portfolios, standardized testing, curriculum-based assessment, conferencing, and reporting.

**EDUC 431-3 Educational Technology** This course is intended to provide students with the understanding and skills needed to effectively integrate computer based technology in an educational setting. The topics to be covered focus on the use of technology in a school setting and include operations and concepts, curriculum plans, assessment and evaluation, productivity and professional practice, and technology issues (OS and DOC Platforms). It introduces students to the values, concepts, expectations, and responsibilities of classroom teachers with respect to technology and issues arising from its use.

**EDUC 434-3 Counselling Skills (SY)** An introduction to the role of the classroom teacher related to CAPP, collegial work with counsellors, support personnel, school-based teams, and families. Topics include: working with parents, working with the school-based team, understanding the role of the school counsellor, communicating with teaching assistants, and accessing resources; as well as teaching career and personal planning from grades 9–12. The course will also introduce teaching approaches and support systems that help students develop and maintain positive achievement-oriented beliefs, that foster their motivation for school learning, and that help them stay in school and experience success in school contexts.

### **EDUC 435-2 Learning & Diversity: Inclusive Classrooms**

This course addresses individual differences and inclusion based on the premises that all students have individual differences in their experiences, skills, knowledge, perspectives, and cultural beliefs; and that curricular materials and instruction must be selected, designed, and adapted to include all learners. Within this wider philosophical framework, particular focuses of the course will include: history of special education and contemporary approaches; working with students with physical, intellectual, or emotional/behavioural challenges or talents; individualized education plans; assessment; the team approach; and accommodating social, cultural, and linguistic diversity.

### **EDUC 436-2 Learning & Diversity: Learning Disabilities**

This course explores the theoretical bases of learning disabilities; and strategies for assessment, instruction, and coordination of resources to support learners with LD across the developmental levels. Characteristics and educational implications of Fetal Alcohol Syndrome/Effects also will be introduced, and practical instructional approaches explored.

**EDUC 446-2 Aboriginal Education: Epistemology** This course is an introduction to Aboriginal epistemology. Central to this study are the thinking and listening processes of orality. Oral history stories provide a unique way to know and to understand the world. Topics include: Aboriginal epistemology, Aboriginal education meta-theory, orality, Aboriginal spirituality and education, Aboriginal curricula, and phenomenology.

## Course Descriptions: Education

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### **EDUC 456-2 Language & Literacy: Across the Curriculum (EY)**

In this course, students will study the role of language as a medium for teaching and learning in the early years, and develop approaches to integrating spoken and written language across subject areas such as language arts, math, music, science, and social studies. The course includes a substantive focus on English as a Second Language/English as a Second Dialect. Other topics include: classroom discourse, construction of meaning, narratives and journals, writing and cognition, and diverse oral traditions. The course includes a practical focus on learning to use effective instructional language, designing thematic instruction, creating literacy-rich classroom environments, providing diverse routes to learning, and managing student discussion in whole-class and small-group contexts.

*Prerequisite:* EDUC 357-3

### **EDUC 457-2 Language & Literacy: Oral & Written Genres (EY)**

An introduction to children's literature in the early years, including the various fiction and nonfiction written genres, and oral storytelling. Practical emphases of this course include learning to select and use children's literature, as well as language arts resources and materials, to plan instruction that fits with curricular aims and individual learners' needs. Students will become familiar with the role and resources of the school library and teacher-librarian.

*Prerequisite:* EDUC 456-2

### **EDUC 460-5 Curriculum & Instruction: III (Humanities Social Sciences)**

Curriculum and instruction methods for the senior years, including accessing, selecting, and developing curricular materials; and planning, instruction, and evaluation methods pertaining to the teachable subject areas.

*Prerequisite:* EDUC 361-4

### **EDUC 461-3 Curriculum and Instruction: IV (Humanities Social Sciences)**

Curriculum and instruction methods for the senior years, including accessing, selecting, and developing curricular materials; and planning, instruction, and evaluation methods pertaining to the teachable subject areas.

*Prerequisite:* EDUC 460-5

### **EDUC 471-5 Curriculum & Instruction: III (Math, Computers, and Sciences)**

Curriculum and instruction methods for the senior years, including accessing, selecting, and developing curricular materials; and planning, instruction, and evaluation methods pertaining to the teachable subject areas.

*Prerequisite:* EDUC 372-4

### **EDUC 472-3 Curriculum & Instruction: IV (Math, Computers, and Sciences)**

Curriculum and instruction methods for the senior years, including accessing, selecting, and developing curricular materials; and planning, instruction, and evaluation methods pertaining to the teachable subject areas.

*Prerequisite:* EDUC 471-5

### **EDUC 489-2 Curriculum & Instruction: Physical Education (EY)**

Foundational and instructional basis for planning and implementing physical education programs in the early years.

**EDUC 490-4 Classroom Practice and Seminar III** Four week supervised practicum in a school, along with weekly seminars with team members addressing ongoing practice issues such as: practical skills, case management, reflection, problem-solving, accessing resources, professional issues, teacher research, and portfolio development. Graded on a Pass/Fail basis.

*Prerequisite:* EDUC 391-3

*Pre- or Co-requisite:* Secondary Years: One of EDUC 414-5, 460-5, or 471-5; Elementary Years: EDUC 456-2 and 406-3

### **EDUC 491-10 Classroom Practice and Seminar IV**

Full-time ten week supervised practicum in a school, along with weekly seminars with team members addressing ongoing practice issues such as: practical skills, case management, reflection, problem-solving, accessing resources, professional issues, teacher research, and portfolio development. Graded on a Pass/Fail basis.

*Prerequisite:* EDUC 490-4

*Pre- or Co-requisite:* Secondary Years: One of EDUC 415-2, 461-2, or 472-2; Elementary Years: EDUC 457-2 and 489-2

**EDUC 495-1 Professional Issues: Portfolios** This seminar will focus on presentation and evaluation of teacher candidates' professional portfolios developed over their past two years of study and practical experience. Other topics will include the transition to work, and developing a personal plan for ongoing professional development.

*Pre- or Co-requisite:* EDUC 395-1

**EDUC 500-3 Teacher Leadership** This course is based on the premise that all teachers can engage in teacher leadership through formal or informal roles to influence social conditions and instructional effectiveness within and beyond their classrooms. Students prepare for leadership opportunities by exploring strategies for goal setting, enhancing communication and trust, motivating and energizing colleagues, and implementing change for improved teacher and student achievement. There is an emphasis on how to build communities of practice or professional learning communities in school contexts.

**EDUC 501-3 Action Research in Schools and Classrooms** This course introduces action research as a strategy for learning about teaching and learning processes and improving classroom practice, often in collaboration with other educators. Course topics include the value of action research, action research processes, examples of action research projects from a variety of schools and classrooms, and keys to planning and reporting successful action research projects. An outcome of the course is that teachers will acquire the skills and tools of action research to implement and adapt innovations in specific educational contexts.

### **EDUC 502-3 Interpretation and Application of Educational Research**

This course exposes teachers to both quantitative and qualitative educational research. Students are expected to read and interpret research in the literature. Successful students may plan to apply existing research knowledge in classrooms and schools or to develop new knowledge related to implementation of innovations in their own settings.

**EDUC 504-3 Instructional Leadership for Cooperating Teachers** This course is open to classroom teachers who have sponsored an extended practicum for a UNBC B.Ed student. The course consists of an orientation workshop, the practicum itself, and a final weekend seminar to reflect on mentorship experiences in light of the instructional leadership literature.

**EDUC 521-3 Classroom Assessment Practices** This course examines the relationships between the purposes and practices of classroom-based assessment and evaluation. Teachers will consider the roles of formative and summative assessment, including dynamic assessment, curriculum-based assessment, portfolios, conferencing, and standardized testing; and the implications of such practices for grading, instructional approaches, school achievement, and planning for diverse students. Emphasis on the practical component allows exploration of effective assessment practices and interpretation of assessment results, as well as responses to current trends in educational evaluation.

**EDUC 523-3 Teaching for Social Responsibility** This course explores the implications of improved social responsibility as a school or district improvement goal, and assists teachers in developing classroom and school wide strategies to achieve that goal. Course topics include personal planning curricula, social dynamics, and strategies for improving communication, relationships, and community identity in classrooms and schools.

**EDUC 523-3 Teaching for Social Responsibility** This course explores the implications of improved social responsibility as a school or district improvement goal, and assists teachers in developing classroom and school wide strategies to achieve that goal. Course topics include personal planning curricula, social dynamics, and strategies for improving communication, relationships, and community identity in classrooms and schools.

**EDUC 528-3 Numeracy Strategies for Struggling Learners** This course is an overview of diagnostic and remedial strategies for mathematics. Students will be provided with an overview of individualised assessment, including formal standardised instruments, informal tests, and classroom-based tools and instruction on remedial strategies specific to math errors and deficiencies. There will also be a field application in the form of a brief math clinic in which the students will work in a semi-supervised setting with one remedial math child out of which a final report will be produced.

**EDUC 531-3 Applications of Educational Technology** This course introduces students to the various computer programs available to practising teachers with a particular emphasis on construction of web-based resources. As well, it examines the role of computer technology as a teaching and learning resource in contemporary educational environments.

**EDUC 533-3 Human Development: Implications for Education** Contemporary theories of human development are examined along with their implications for teaching and counseling children, adolescents, and adults. The course invites teachers to identify the theories that guide their own practice and make plans to implement espoused theories more consistently.

**EDUC 534-3 Achievement Motivation** This course addresses current literature on achievement motivation, grounded in practical classroom and school-based examples. The examination is practice oriented and teachers focus on shaping inferences from the literature for local application. A central issue is how teachers can understand and foster students' motivation for school learning.

**EDUC 535-3 Learning & Diversity: Inclusive Classrooms** This course addresses individual differences and inclusion based on the premises that all students have individual differences in their experiences, skills, knowledge, perspectives, and cultural beliefs: and that the curricular materials and instruction must be selected, designed, and adapted to include all learners. Within this wider philosophical framework, particular focuses of the course will include: history of special education and contemporary approaches; working with students with physical, intellectual, emotional/behavioural challenges or talents; individualized education plans; assessment; the team approach; and accommodating social, cultural, and linguistic diversity.

**EDUC 541-3 Principles of Instruction** This course provides an examination of current instructional trends and strategies and the opportunities and challenges in their implementation. Teachers will be encouraged to identify, reflect on, and expand their curriculum planning tools and instructional repertoires.

**EDUC 546-3 First Nations Education** This course reviews the diverse meanings of First Nations or Aboriginal education. The concepts of power, control, and culture will help teachers analyze current practice. Topics include: historical analysis, contemporary issues, and promising practices for increasing Aboriginal school success. Teachers will build their knowledge and understanding of Aboriginal approaches to education.

**EDUC 551-3 Mathematics Education** This course provides a critical examination of current practices and emerging trends in K-12 mathematics curriculum planning and instruction. Teachers may elect to focus on either the elementary or secondary level of the curriculum.

**EDUC 552-3 Course Title: Science Education** This course provides a critical examination of current practices and emerging trends in K-12 science curriculum planning and instruction. Teachers may elect to focus on either the elementary or secondary level of the curriculum.

## Course Descriptions: Education

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**EDUC 553-3 Social Studies Education** This course provides a critical examination of current practices and emerging trends in K-12 social studies curriculum planning and instruction. Teachers may elect to focus on either the elementary or secondary level of the curriculum.

**EDUC 554-3 Literacy Strategies for Struggling Learners** This course introduces participants to the diagnostic assessment of reading problems and the planning, development and use of instructional strategies that address struggling readers' identified needs. The course will involve a practicum component that includes the diagnostic assessment of struggling readers and the subsequent planning, instruction, and reporting of the assessment and intervention. The course is intended for teachers wishing to further develop their diagnostic literacy assessments, planning, and instructional repertoires in classroom settings.

**EDUC 558-3 Language Arts Education** This course provides a critical examination of current practices and emerging trends in K-12 language arts curriculum planning and instruction, including aspects of language, literacy, and literature. Topics will include the writing process, reader response, and children's or young adult literature as well as current approaches to teaching reading. Teachers may elect to focus on either the elementary or secondary level of the curriculum.

**EDUC 559-3 Second Language Instruction** This course provides a critical examination of current practices and emerging trends in K-12 second language curriculum planning and instruction. The language offered may be French or another provincially approved second language, such as a local First Nations language. Teachers may elect to focus on either the elementary or secondary level of the curriculum.

**EDUC 570-3 Montessori Theory** This course is designed to provide a comprehensive overview of the Montessori preschool years (ages 3-6). It includes lectures and seminars on Montessori educational theory, philosophy, and preschool curriculum. The course is required of students who are not Montessori 3-6 certified.

**EDUC 571-3 Montessori Curriculum and Instruction** This course prepares the student to implement an integrated approach to language literacy and cultural studies consistent with Montessori pedagogy. Demonstration, lecture presentations, small group discussion, and supervised practice with materials are utilized.

**EDUC 572-3 Montessori in Context (Child Development)** Students examine Maria Montessori's philosophical beliefs. The integration of philosophy, current research in the area of child development, and content pedagogy is the focus of this component of the program. Lecture presentations, small group discussion, and independent and small group research projects are utilized.

**EDUC 573-3 Montessori Curriculum and Instruction – Scientific Literacy** This course focuses on the development and refinement of knowledge and skills necessary for full implementation of the Montessori approach to Cosmic Education and the elementary cultural studies curriculum. The course provides a constructivist approach to the integration of Cosmic Education, Science and Practical Life/Technology. Through hands on experience, research, small group projects, lecture, and demonstration students develop and refine competency in scientific literacy.

**EDUC 574-3 Montessori Curriculum and Instruction – Mathematics Education** This course is designed to prepare the student to present the Montessori mathematics curriculum and facilitate the development of mathematics in a Montessori Elementary class (ages 6-12). Demonstration, lecture presentations, and supervised practice with didactic materials provide links between Montessori pedagogy and mathematical concepts.

**EDUC 575-3 Montessori Integrated Cultural Studies and Field Study Planning** In this course, students research, design, and demonstrate appropriate materials and activities that reflect an integration of history, geography, the sciences, and creative arts. Topics include the scope and importance of movement, nutrition and physical exercise for the development of the whole child and an understanding of an integrated and interdisciplinary approach to education and an ability to apply Montessori principles in preparation for a field study and portfolio. Lecture, demonstration, field trips, discussion, participation in physical activities, and individual research projects are utilized.

**EDUC 576-3 Montessori Integrated Cultural Studies Field Study** The function of the Field Study/Practicum Phase is to provide for the student a supervised teaching/learning experience and a period of observation, internalization, and further study, to bring together the theory and practice of Montessori Education.

**EDUC 577-3 Montessori Portfolio** This course is the culmination of the Montessori Education Program and results in the production of a print-based or electronic portfolio. Students provide artifacts from their coursework and professional experience that demonstrate a definite understanding of the Montessori theory and practice. The media include video, audio, student assessment, and any related evidence.

**EDUC 580-3 Visual Arts Across the Curriculum** This course provides an exploration of the role of the visual arts (drawing, painting, sculpture, mixed media) for teaching and learning in the K-12 curriculum. Strategies for incorporating the visual arts as means of expressing learning in subject areas across the curriculum will be emphasized. Teachers may elect to focus on either the elementary or secondary level of the curriculum.

**EDUC 581-3 Performing Arts Across the Curriculum** This course provides an exploration of the role of the performing arts (music, dance, and drama) for teaching and learning in the K-12 curriculum. Strategies for incorporating the performing arts as means of expressing learning in subject areas across the curriculum will be emphasized. Teachers may elect to focus on either the elementary or secondary level of the curriculum.

**EDUC 592-3 Special Topics** Topics to be determined by the special interests of students and the availability of faculty members to teach those topics. Special topics courses at this level will emphasize the analysis and improvement of classroom practice in light of current literature. There is no limit to the number of special topics courses that can be taken as credit toward a Post-Baccalaureate Diploma.

**EDUC 593-3 Directed Readings** This course provides an opportunity for students to study an educational topic relevant to their program. Directed readings courses at this level will emphasize the analysis and improvement of classroom practice in light of current literature. The delivery of directed readings courses is subject to the availability of instructors.

**EDUC 594-3 Self-Directed Professional Development** This course provides practicing teachers with current views of effective professional development in light of movements toward standards and accountability. Students will engage in a comprehensive analysis of their practice to date and build a professional portfolio to reflect their achievements. An outcome of the course will be the construction of a portfolio and professional growth plan that builds on past successes and strengths and addresses areas identified as underdeveloped.

## 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 102-3 Introduction to Poetry** An introduction to the reading of poetry through a detailed examination of a range of poetic texts.

*Prerequisites:* none

**ENGL 103-3 Introduction to Fiction** An introduction to the reading of fiction through a detailed examination of a range of narrative texts (e.g. the novel, short fiction).

*Prerequisites:* none

**ENGL 104-3 Introduction to Drama and/or Film** An introduction to the study of drama and/or film through a detailed examination of a range of dramatic texts and films. More emphasis may be placed on either genre by an individual instructor.

*Prerequisites:* none

**ENGL 120-3 Introduction to Canadian Native Literatures** This course offers an introduction to the study of Canada's Native literatures, including traditional oral narratives, drama, poetry, and fiction.

**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 have the opportunity to gain an overview of some current topics in gender theory.

*Prerequisites:* none

*Precluded:* WMST 220-3

**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 205-3 Fiction** A study of selected trends in the development of the novel or short story, or of a particular mode or genre of representation. See the English Program handbook for details. (Exclusions: students may have already received credit for ENGL 203-3 or ENGL 204-3, but not both).

*Prerequisites:* none

*Precluded:* one of ENGL 203-3 or ENGL 204-3

**ENGL 209-3 Introduction to Television Studies** This course introduces students to the academic study of television. Individual instructors may choose to focus on fiction or non-fiction or include both.

**ENGL 210-3 Women and Literature: A Survey** This course is a survey of works of poetry and fiction written by women in English from the Renaissance to the present. The course considers feminist theory and criticism in relation to these works.

*Prerequisites:* none

*Precluded:* WMST 221-3

## Course Descriptions: English

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**ENGL 211-3 Survey of English Literature I** A survey of literature in English from the medieval period (c. 10th century) to the late 18th century.

*Prerequisites:* one of ENGL 100-3, ENGL 102-3, ENGL 103-3, ENGL 104-3

*or Co-requisites:* one of ENGL 100-3, ENGL 102-3, ENGL 103-3, ENGL 104-3

**ENGL 212-3 Survey of English Literature II** A survey of literature in English from the late 18th century through to the present.

*Prerequisites:* ENGL 211-3

**ENGL 231-3 An Introduction to Canadian Literature** A survey of Canadian literature.

*Precluded:* ENGL 330-3

**ENGL 260-3 A Survey of 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** Lectures and workshops in the study and craft of non-fictional prose.

*Prerequisites:* none

**ENGL 271-3 Introduction to Creative Writing** Introductory lectures and workshops in the craft of writing fiction, poetry, and/or drama.

*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 Introduction to 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 Introduction to 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

**ENGL 283-3 Introduction to 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 Introduction to 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 309-3 Intermediate Studies in Film or Television** This course undertakes an extensive examination of a range of film or television genres. Individual instructors may choose to focus on film or television or include both.

*Prerequisites:* two lower division English courses excluding ENGL 170-3, or 45 credit hours, or ENGL 209-3, 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 331-3 Genres in Canadian Literature** A focus on a single genre in Canadian literature such as the short story, the novel, drama, poetry, or non-fiction. See the English Program handbook for details.

*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** An examination of works in world literature, written in English and other languages, in the context of various literary periods and genres.

*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 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 Modern and Contemporary Literature in the United States** American writing since 1900, with an emphasis on the American cultural contexts. 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 19th Century Literature in the United States**

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 409-3 Special Topics in Film or Television Studies** This course offers an intensive examination of an area or genre of film or television. Individual instructors may choose to focus on film or television or include both.

*Prerequisites:* two lower division English courses excluding ENGL 170-3, or 45 credit hours, or ENGL 309-3, or permission of the instructor.

**ENGL 410-3 Contemporary Women's Literature** This course considers contemporary women writers and their work, emphasizing their cultural diversity and considering them in the context of feminist theory.

*Prerequisites:* two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor.

*Precluded:* WMST 420-3

**ENGL 420-3 Advanced 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 Special Topics in 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

**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 Special Topics in 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

# Course Descriptions: English, Environmental Planning

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**ENGL 460-3 Special Topics in Children's Literature** Special topics in children's literature and culture. See the English Program handbook for details.

*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:* 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:* permission of the instructor

**ENGL 472-3 Creative Writing - Drama and Script-Writing** Lectures and workshops in the craft of writing drama and script-writing.

*Prerequisites:* 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 483-3 Special Topics in Romantic Literature** This course investigates a particular aspect of Romantic Literature. The focus may be on the works of a specific author or school of authors, a literary genre, or a particular social or theoretical concern.

**ENGL 484-3 Special Topics in Victorian Studies** Special topics in Victorian Studies. See the English Program handbook for details.

*Prerequisites:* two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

**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

**ENGL 491-3 Special Topics in 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

**ENGL 493-3 Cultural Studies** Special topics in cultural studies with a focus on an interdisciplinary approach. See the English Program handbook for details.

*Prerequisites:* two lower division English courses excluding ENGL 170-3, or 45 credit hours, or permission of the instructor

**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, and permission of the instructor

## Environmental Planning

**ENPL 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

*Precluded:* ENVS 104-3

**ENPL 204-3 Principles and Practices of Planning** History, theory, methods and processes in regional planning; contemporary issues and professional practices.

*Prerequisites:* ENPL 104-3 or ENVS 104-3 or permission of instructor

*Precluded:* ENVS 204-3

**ENPL 205-3 Environment and Society** Interactions between humans and their environments; societal responses to environmental change, both naturally and anthropogenically induced.

*Prerequisites:* none

*Precluded:* ENVS 205-3

**ENPL 206-3 Planning Analysis and Techniques** This course provides background knowledge and skills needed for futures studies. The course covers qualitative and quantitative techniques used in the field of planning. Specific areas covered include: scenario and future studies; forecasting, backcasting and other prediction techniques; and policy analysis.

*Prerequisites:* ECON 205-3 or MATH 242-3 or permission of the instructor

**ENPL 207-3 Introduction to Computer Aided Design (CAD) for Planners** This course teaches students the basic functions and application of CAD to the field of community and environmental design. Students apply design theory within the CAD environment producing 2D and 3D models of proposed infrastructure plans.

*Prerequisites:* Principles of Math 12 or MATH 115-3



# Course Descriptions: Environmental Planning

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## **ENPL 208-3 First Nations Community and Environmental Planning**

First Nations are involved in a broad array of environmental and community planning processes. Some of these processes originate in First Nations communities. Others are established as federal and provincial government or business initiatives. This course lays a foundation of student understanding of these planning processes and their future development.

*Prerequisites:* none

## **ENPL 301-3 Sustainable Communities: Structure and Sociology**

This course focuses on the social dimension of planning, including the organization, function, development, and decline of human settlements. Students learn about the sociology of community and the relations between social interaction and physical structures. Topics include social impact assessments, indicators of sustainable communities, and current planning programs (eg., healthy communities, new urbanism, and Smart Growth).

*Prerequisites:* none

*Precluded:* ENVS 301-3

## **ENPL 303-3 Spatial Planning with Geographical Information Systems (GIS)**

Methods from geographical information science can be used in various ways in spatial planning. The course provides knowledge about the methods from GIS and decision support systems that are most important to planners. The laboratories demonstrate how decision support systems are used within various fields of spatial planning. Emphasis is placed upon urban and rural planning issues and location analysis techniques.

*Prerequisites:* GEOG 204-3 or GEOG 300-3 or permission of instructor.

## **ENPL 304-3 Mediation, Negotiation and Public Participation**

This course is an introduction to the art and practice of mediation, negotiation and public participation processes. The course focuses on basic principles and best practices, and allows students the opportunity to develop their own skills in the subject areas through simulations and observations.

*Prerequisites:* 60 credit hours

**ENPL 305-3 Environmental Impact Assessment** Analysis of environmental impact statements and their legal framework; methods of environmental assessment.

*Prerequisites:* 60 credit hours

*Precluded:* ENVS 305-3

## **ENPL 313-3 Rural Community Economic Development**

This course offers an introduction to the various theories and concepts of community economic development with specific application to northern, rural, remote and First Nations communities.

*Prerequisites:* 60 credit hours

## **ENPL 318-3 Professional Planning Practice**

This course is 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:* ENPL 204-3 or ENVS 204-3 and 60 credit hours

**ENPL 319-3 Social Research Methods** This course provides an overview of social research methods used in environmental planning, social sciences, and humanities. Topics covered include research design, data collection techniques (e.g., surveys, interviews), quantitative and qualitative data analysis, and project management.

*Prerequisites:* 60 credit hours or permission of the instructor

*Precluded:* ENVS 419-3 and ENPL 419-3

**ENPL 401-3 Environmental Law** International, national and provincial, municipal and First Nation environmental law. Interpretation and application. Advised for pre-law students.

*Prerequisites:* POLS 100-3

*Precluded:* ENVS 401-3

**ENPL 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

*Precluded:* ENVS 402-3

## **ENPL 409-4 Advanced First Nations Community and Environmental Planning**

This is a workshop style, fieldbased course that allows students to work on a real world planning project in collaboration with a First Nations community. Students will be expected to be able to work in the field.

*Prerequisites:* 90 credit hours and ENPL 208-3

**ENPL 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 ENPL 204-3 or ENVS 204-3 or permission of instructor

*Precluded:* ENVS 410-3

## **ENPL 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 ENPL 204-3 or ENVS 204-3 or permission of the instructor

*Precluded:* ENVS 411-3

**ENPL 415-3 Ecological Design** This course is 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:* ENPL 204-3 or ENVS 204-3 and 90 credit hours

*Precluded:* ENVS 415-3

# Course Descriptions: Environmental Science

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**ENPL 420-1 Research Methodology** An opportunity to examine major methodologies and to prepare a research proposal.

*Co-requisites:* ENPL 430-3

*Precluded:* ENVS 420-3

**ENPL 430-3 Undergraduate Thesis** This is an optional course, allowing students to devote time to a concentrated piece of research.

*Co-requisites:* ENPL 420-1

*Precluded:* ENVS 430-3

**ENPL 431-3 Professional Report** This course allows the development of a professional report relevant to the student's theme of interest.

*Prerequisites:* 90 credit hours and permission of an approved Academic Supervisor.

**ENPL 440 (2-6) Internship** This course allows students to gain applied knowledge in the field of planning outside the university setting. A student can take one or several internship(s) for a maximum of 6 credit hours toward the Bachelor of Planning degree.

*Prerequisites:* permission of the instructor and Program Chair.

**ENPL 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

**ENPL 499 (1-6) Independent Study** May be repeated for credit (maximum six credit hours).

*Prerequisites:* permission of the instructor and Program Chair

## Environmental Science and Engineering

**ENSC 100-1 Introduction to Engineering Seminar** This course will introduce Engineering students to Engineering practice, particularly in Northern BC, through seminars and invited presentations involving professional Engineers in the region and province.

*Prerequisites:* enrollment in an Engineering Program

### **ENSC 200-3 Fundamentals of Environmental Engineering**

This course introduces Environmental Engineering by introducing principles, applications, and design concepts pertinent to water quality and pollution, drinking, and waste water treatment, solid and hazardous waste management, and air pollution and control. Additionally, the course includes some fundamental engineering concepts, such as the centroid of a body and composite bodies, moments, and Mohr's circle. Lab sessions include an introduction to computer-based engineering analysis and design tools such as spreadsheets, CAD and GIS.

*Prerequisites:* 30 credit hours and admission to the Environmental Engineering program

**ENSC 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

*Precluded:* ENVS 201-3

**ENSC 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 101-4, 102-4, CHEM 101-3

*Recommended:* PHYS 100-4 and MATH 100-3 or MATH 152-3 or permission of the instructor

*Precluded:* ENVS 202-3

**ENSC 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

*Precluded:* ENPL 302-3

**ENSC 308-3 Northern Contaminated Environments** This course provides students with a broad knowledge base and a sound understanding of various environmental problems in the north, with particular emphasis on practical skills to address such problems. Topics include physical settings of the north, Arctic ecology and environmental pollution, pollutant transport pathways in the Arctic, petroleum hydrocarbon pollution in marine and terrestrial environments, air pollution and climate change, industrial waste management, and environmental and human health risk assessment.

*Prerequisites:* 60 credit hours

*Precluded:* ENVS 308-3

**ENSC 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:* ENSC 201-3 or ENVS 201-3 and 100 level Math or PHYS or permission of instructor

*Precluded:* ENVS 312-3

# Course Descriptions: Environmental Science

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**ENSC 350-3 Fluid Mechanics** This course is an introduction to fluid mechanics for environmental science, engineering, physical geography, forestry and wildlife and fisheries students. The course covers the following topics: definition of fluid, fluid properties, variation of pressure in a fluid, hydrostatics forces, buoyancy, dimensional analysis, similarities, kinematics of flow, control volumes, continuity equation, momentum equation, energy equation, and flow in closed conduits.

*Prerequisites:* MATH 152-3 or both of (MATH 100-3 and MATH 101-3), and PHYS 100-4 or PHYS 101-4.

**ENSC 404-3 Waste Management** This course introduces environmental, technical and political aspects of non-hazardous and hazardous wastes. Topics include sources, evaluative methods, risk assessment, treatment, disposal, and current legal and management requirements.

*Prerequisites:* 100 level 3 credit Chemistry, 100 level 3 credit Biology, and 60 credit hours.

*Precluded:* ENVS 404-3

**ENSC 406-3 Environmental Modelling** This course provides an understanding of the physical, chemical and biological processes that govern contaminant transport and fate in environmental media. Topics include modelling fundamentals, mass transport in aquatic ecosystems, and mathematical modelling of a wide variety of contamination issues, such as lake eutrophication, river water quality, groundwater contamination, atmospheric deposition, and climate change. Laboratory exercises will complement lecture topics and focus on the development of computer-based modelling skills.

*Prerequisites:* 60 credit hours. MATH 152-3 or both of MATH 100-3 and MATH 101-3 or permission of the instructor.

*Precluded:* ENVS 406-3

**ENSC 408-3 Storms** This course covers the analysis and dynamics of synoptic weather systems; cyclones and cyclogenesis; fronts, thunderstorms, jet streams and stability; thermodynamic charts, satellite imagery and weather forecasting. May be taught alternate years.

*Prerequisites:* ENSC 201-3 or ENVS 201-3 or 200 level Math (excluding MATH 242-3) or PHYS or permission of the instructor.

*Precluded:* ENVS 408-3

**ENSC 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:* ENSC 201-3, ENSC 312-3 or ENVS 201-3 and ENVS 312-3, or permission of instructor

*Precluded:* ENVS 412-3

**ENSC 417-6 Designing Solutions in Environmental Engineering** In this project-oriented course, students will apply concepts and principles from Environmental Science and fundamentals from Engineering to design Engineering solutions to Environmental problems. The course may include group projects and working with an industry in north/central BC, and cooperative work with students in ENSC 418-3 and ENPL 419-3.

*Prerequisites:* completion of 90 credit hours in an Engineering Program.

*Co-requisites:* ENSC 418-3/ENVS 418-3. The students will take the courses concurrently and use ENSC 417-6 to develop a mitigation strategy/design.

**ENSC 418-3 Environmental Measurement and Analysis** This is a capstone course for Environmental Science and Environmental Engineering Majors. It is a quantitative laboratory and field based course focusing on advanced environmental measurement and analysis of atmospheric, aquatic, and terrestrial systems. The approach is integrative and problem-oriented; students may examine natural and/or managed systems, including engineered systems (eg. waste management) and systems impacted by anthropogenic activity (eg. contamination.)

*Prerequisites:* MATH 342-3, ENSC 308-3 or ENSC 200-3, 200 level 3 credit Chemistry, FSTY 205-3, and 90 credit hours or permission of the instructor.

*Strongly recommended:* BIOL 203-3, ENSC 201-3, ENSC 202-3.

*Precluded:* ENVS 418-3

**ENSC 425-3 Global Change Science** Earth's environmental systems-atmosphere, biosphere, lithosphere and hydrosphere-are intimately interconnected and undergoing periodic and chaotic natural variability. A fifth "system" -the anthrosphere (human species)-has become an increasingly significant component of the Earth system. This course covers topics in global change science including: past climate and environmental change, climate and environmental variability and prediction, climate and environmental change interactions with biological organisms and ecosystems, implications of climate and environmental change for terrestrial systems, and the human role in global change.

*Prerequisites:* ENSC 201-3 and either of BIOL 110-3 or BIOL 201-3 or permission of the instructor.

**ENSC 430-6 Undergraduate Thesis** The undergraduate thesis allows students in Environmental Science or Environmental Engineering to devote time to a concentrated piece of research. The thesis may be completed over one or two semesters.

*Prerequisites:* 90 credit hours and permission of the instructor and Program Chair.

**ENSC 440-(2-6) Internship** May be repeated for credit (maximum six credit hours).

*Prerequisites:* permission of the instructor and Program Chair.

# Course Descriptions: Environmental Science, Studies

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**ENSC 450-3 Geophysical Data Analysis** This course focuses on the practical and theoretical aspects of advanced geophysical data analysis methods, including time series analysis, linear multivariate statistical analysis, nonlinear statistical methods based on neural network, inverse theory and optimal estimate of space-state. Emphasis is placed on the environmental analysis and prediction using large datasets (e.g., the global satellite observations) and dynamical models (space-state models). The course format consists of lectures and labs, where students apply theories and methods to solve practical problems.

*Prerequisites:* MATH 371-3 or MATH 240-3

*Precluded:* ENSC 650 -3

**ENSC 451-3 Groundwater Hydrology** This course introduces fundamental principles of groundwater flow and subsurface contaminant transport, and their applications to solve problems related to groundwater resources evaluation, development, and management. Topics include occurrence and movement of groundwater, steady-state and transient well hydraulics, site characterization, unsaturated flow theory, groundwater quality and contamination, contaminant transport simulation, petroleum hydrocarbon transport and remediation systems, and groundwater modelling techniques.

*Prerequisites:* ENSC 202-3 or ENSC 350-3 or GEOG 310-3

*Recommended:* ENSC 308-3

**ENSC 452-3 Reclamation and Remediation of Disturbed Environments** This course takes an integrative, scientific approach to the remediation and reclamation of drastically disturbed environments. Industrial activity and chemical spills can result in the contamination of soil, surface water, and groundwater. In addition, some industrial activities such as mining can cause large scale disturbances to the landscape, potentially impacting both terrestrial and aquatic systems. The focus is on the remediation and reclamation of terrestrial systems, but aquatic systems will be included.

*Prerequisites:* any second year 3-credit Chemistry, FSTY 205-3, and 60 credit hours.

*Recommended:* ENSC 308-3 and FSTY 455-3

**ENSC 453-3 Environmental Resources Management and Decision Making** This course introduces various decision-making models and methods to aid in environmental resources management. Topics include environmental economics, benefit-cost analysis, planning evaluation and review technique (PERT), linear programming, multi-objective programming, integer programming, stochastic programming, dynamic programming, and nonlinear programming. A number of environmental systems serve as management examples, such as water resources, water quality, air quality, groundwater, solid waste, and forest ecosystem. Supporting computer software may be used.

*Prerequisites:* MATH 100-3 and MATH 101-3, or MATH 152-3, or permission of the instructor.

*Recommended:* ENSC 308-3

**ENSC 454-3 Snow and Ice** This course focuses on the physical processes involving snow and ice that greatly influences the hydrometeorology of Northern BC and the remainder of Canada. The goals of this course include gaining a better understanding of snowpack, permafrost, lake ice, and glacier formation and ablation processes, learning about the characteristics of snow and ice and how they will evolve with climate change, and conducting an extensive snow survey in the field.

*Prerequisites:* ENSC 201-3 required

*Recommended:* GEOG 210-3 and GEOG 412-3

**ENSC 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.

**ENSC 499-(1-6) Independent Study** May be repeated for credit (maximum six credit hours).

*Prerequisites:* permission of the instructor and Program Chair.

## Environmental Studies

**ENVS 101-3 Introduction to Environmental Citizenship** This course provides an introduction to the concept of "environmental citizen," and to the foundational elements of environmental studies, including social, ecological, humanistic and indigenous approaches to understanding human interactions with the natural environment. Development of skills in written communication is emphasized.

**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 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

*Precluded:* ENPL 311-3

**ENVS 326-3 Natural Resources, Environmental Issues and Public Engagement** This course examines public engagement mechanisms and the attributes of successful engagement with respect to environmental and resource management issues. It also addresses the socio-political and legal requirements for engagement with the public, including Aboriginal peoples. Exercises and critiques are used to provide students with practical experience in public engagement around environmental issues.

# Course Descriptions: Environmental Science, First Nations Studies

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**ENVS 425-3 Global Environmental Change: Science and Policy** This course provides both social and natural science students with a common vocabulary and trans-disciplinary understanding of the complex problems and issues of global environmental change science and policy. Once a common vocabulary has been established, interdisciplinary approaches to current environmental problems are introduced and explored.

*Prerequisites:* 60 credit hours

**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 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.*

**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 contact with 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 (X\_a'isla'k'ala): Level 1** This course provides an introduction to the conversational and written elements of the X\_a'isla'k'ala language.

*Prerequisites:* none

**FNST 136-3 Haisla Language (X\_a'isla'k'ala): Level 2** This course develops reading, writing, and speaking skills in the X\_a'isla'k'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

**FNST 143-3 Gitksanimx: Level 1** This course provides an introduction to the conversational and written elements of Gitksanimx.

*Precluded:* FNST 131-3 when taught as Gitksanimx

**FNST 144-3 Gitksanimx: Level 2** This course develops reading, writing, and speaking skills in Gitksanimx.

*Prerequisites:* FNST 143-3

*Precluded:* FNST 132-3 when taught as Gitksanimx

## Course Descriptions: First Nations Studies

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**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 173-3 Gitksan Culture: Level 1** This course introduces students to Gitksan culture.

*Prcluded:* FNST 161-3 when taught as Gitksan culture.

**FNST 174-3 Gitksan Culture: Level 2** This course develops student knowledge of selected topics in Gitksan culture.

*Prerequisites:* FNST 173-3

*Prcluded:* FNST 162-3 when taught as Gitksan culture

**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

# Course Descriptions: First Nations Studies

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**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 221-3 Practical Phonetics of First Nations Languages**

An examination of the articulatory basis of human languages with an emphasis on the sounds of the First Nations languages of northern British Columbia. Includes intensive practice in the recognition, production and description of classes of sounds and the use of a practical writing system for one or more target languages.

*Prerequisites:* none

**FNST 223-3 First Nations Language Immersion\***

This course provides intensive immersion experience in one First Nations language to facilitate development of conversational fluency. It will be taught in a number of different sections, each of which will focus on a different language, e.g. Haida, Sm'algayax (Coast Tsimshian), Nisga'a, Gitksanimx, Haisla, Tlingit, Sekani, Beaver, Slavey, Tahltan, Wet'suwet'en, Carrier, Chilcotin, or another Athabaskan language; or Shushwap. Student transcripts will indicate the specific language studied.

*Prerequisites:* none (may be offered concurrently with first and/or second level language courses). \*Specific equivalent courses for each First Nations language may be substituted: e.g. FNST 231-3, 232-3, 233-3, 234-3, 235-3, 236-3, 237-3, 238-3, 239-3, 240-3

**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 (X\_a'isla'k'ala): Level 3** The development of speaking and understanding of the X\_a'isla'k'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 (X\_a'isla'k'ala): Level 4** The development of speaking and understanding of the X\_a'isla'k'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'algayax): Level 3** The development of speaking and understanding of Sm'algayax 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'algayax 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 243-3 Gitksanimx: Level 3** This course provides intermediate study of the conversational and written elements of Gitksanimx.

*Prerequisites:* FNST 144-3

**FNST 244-3 Gitksanimx: Level 4** This course provides advanced study of the conversational and written elements of Gitksanimx.

*Prerequisites:* FNST 243-3

*Precluded:* FNST 232-3 when taught as Gitksanimx

**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

# Course Descriptions: First Nations Studies

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**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, Gitksan, 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

**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, Gitksan, 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 3: 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 172-3 or permission of the Program Chair

**FNST 272-3 Métis Studies Level 4: Working with Métis Communities** This class is designed to develop and apply a set of research skills and competencies for working with Métis Communities.

*Prerequisites:* FNST 271-3 or permission of the Program Chair

**FNST 273-3 Gitksan Culture: Level 3** This course introduces students to advanced study of specific topics in Gitksan culture.

*Prerequisites:* FNST 174-3

*Precluded:* FNST 261-3 when taught as Gitksan culture

**FNST 274-3 Gitksan Culture: Level 4** This course introduces students to advanced study of specific topics in Gitksan culture, including community-based research.

*Prerequisites:* FNST 273-3

*Precluded:* FNST 262-3 when taught as Gitksan culture

**FNST 280-3 Aboriginal Medicines I-Harvesting and Preservation**

This course provides students with an understanding of the traditional health knowledge of a specific Aboriginal group. Students are expected to participate in the identification, description, and methods of harvesting and preserving plants for medicinal purposes. This course is taught in the traditional territory of a specific Aboriginal group.

*Prerequisites:* FNST 100-3

**FNST 281-3 Aboriginal Medicines II-Administering Ethics** This course examines the treatment of diseases, administering of medicines and ethical practices and standards within the traditional health knowledge of a specific Aboriginal group. Students are introduced to medicine from an Aboriginal worldview. This course is taught in the traditional territory of an Aboriginal group.

*Prerequisites:* FNST 280-3

**FNST 282-3 Aboriginal Health Philosophy** This is an introductory course that examines traditional health knowledge, Aboriginal approaches to health, connection to the land, Aboriginal worldviews and spirituality, family systems and the importance of traditional food to good health. Students are introduced to the traditional health teachings of a specific Aboriginal group. This course is taught in the traditional territory of an Aboriginal group.

*Prerequisites:* FNST 100-3

**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** This course examines sources for the development of the discipline. The theoretical approaches of major contributors to the discipline are examined in the context of theory in allied disciplines such as anthropology, literature and cultural studies.

*Prerequisites:* FNST 100-3 or permission of the Program Chair.

**FNST 306-3 Indigenous Women: Perspectives** The purpose of this course is twofold: first, to understand how Indigenous women's lives have been shaped by colonialism; and second, to delineate the global themes in their current political and social struggles to transcend the colonial legacy that continues to constrain them.

*Prerequisites:* FNST 100-3 or permission of the instructor.

*Precluded:* WMST 306-3

**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-(3-6) 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 315-3 Aboriginal Health Management** This course examines government policies dedicated to the improvement of Aboriginal health in Canada. Population health, prevention and health promotion theories are explored as well as current health management structures in place in Aboriginal communities. This course is designed to be delivered in collaboration with an Aboriginal/First Nations community partner.

*Prerequisites:* FNST 282-3

**FNST 316-3 Aboriginal Health and Chronic Illness** This course provides students an opportunity to critically examine the current health status of Aboriginal people, including the incidence of chronic illness and mental health issues. Students are introduced to traditional Aboriginal healing practices intended to address the current state of Aboriginal health. This course is designed to be delivered in collaboration with an Aboriginal/First Nations community partner.

*Prerequisites:* FNST 281-3

*Precluded:* HHSC 471-3

**FNST 317-3 Aboriginal Healing Practices** This course focuses on the traditional healing practices of a specific Aboriginal/First Nations group. Students are expected to participate in the organization, preparation, and hosting of one or more traditional healing practice. This course is taught in the traditional territory of a specific Aboriginal group.

*Prerequisites:* FNST 281-3

**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

# Course Descriptions: First Nations Studies

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**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 324-3 Advanced First Nations Language Immersion\***

This course provides advanced intensive immersion experience in one First Nations language to extend and deepen student skills and fluency in conversation and other oral genres (public speaking, storytelling, etc.). It will be taught in a number of different sections, each of which will focus on a different language, e.g. Haida, Sm'algayax (Coast Tsimshian), Nisga'a, Gitksanimx, Haisla, Tlingit, Sekani, Beaver, Slavey, Tahltan, Witsuwit'en, Carrier, Chilcotin, or another Athabaskan language, or Shushwap. Student transcripts will indicate the specific language studied. May be repeated for up to three additional credits with permission of the Program Chair; if repeated, credits may substitute for an advanced language course in the relevant language with permission of the Dean.

*Prerequisites:* FNST 223-3

\*Specific equivalent courses for each First Nations language may be substituted.

**FNST 325-3 First Nations Language Mentoring\*** This course provides an opportunity for students of First Nations languages to work with fluent speakers in a mentoring or apprenticeship context to develop language skills. It will be available in a number of different sections, each of which will focus on a different language, e.g. Haida, Sm'algayax (Coast Tsimshian), Nisga'a, Gitksanimx, Haisla, Tlingit, Sekani, Beaver, Slavey, Tahltan, Witsuwit'en, Carrier, Chilcotin, or another Athabaskan language, or Shushwap. Student transcripts will indicate the specific language studied.

*Prerequisites:* FNST 220-3 or FNST 223-3

*Co-requisites:* FNST 220-3 or FNST 221-3

\*Specific equivalent courses for each First Nations language may be substituted.

**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** This course is a seminar in which examples of contemporary rhetoric are considered as aesthetic and cultural performances.

*Prerequisites:* Upper division standing or permission of instructor.

**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 408-3 First Nations Clothing and Adornment** In this course, we will look at the clothing and personal adornment of First Nations people in North America, particularly Canada. We will examine clothing styles of the past and the traditional clothing styles worn today by First Nations. We will consider the resources used in the manufacture of materials, the science of clothing manufacture, the cultural meaning of clothing and adornment and the clothing of a number of culture areas. This course will provide students an opportunity to create an item of First Nations-style clothing or ornamentation for part of the grade. The course will begin with a discussion of possible projects, materials and techniques and then will move to a series of lectures. A number of classes thereafter will involve actual work on projects while short presentations are given by the instructor, guest speakers and class members.

*Prerequisites:* FNST 301-3, or permission of the Program Chair

**FNST 409-3 Indigenous Perspectives on Reincarnation and Rebirth** This seminar will review indigenous philosophy on the subject of reincarnation and rebirth, both of humans and of the animal realm or four legged, winged and finned creatures of this earth. The importance of these philosophies will be reviewed in terms of indigenous concepts of psychology and the nature of personality, of ecological concerns, of spirit dimensions as well as of nationhood. The course will briefly compare indigenous concepts of reincarnation and rebirth with those in Africa and the Hindu and Buddhist traditions, but the emphasis is on North American indigenous thought and experience regarding returning and rebirth.

*Prerequisites:* Upper division standing, or permission of the instructor

**FNST 410-(3-6) Advanced Topics in First Nations Art and Material Culture** Advanced Topics in Art and Material Culture of BC First Nations: A survey of major sources in the literature on focused topics in First Nations Art and Material Culture with an emphasis on contemporary forms. Topical focus may vary with each offering, ranging from clothing and adornment of First Nations Peoples: Northwest Coast design and carving; Métis material culture, etc. The course may cover traditional and contemporary material, sources of materials and science of artists will participate in the seminar, and students will work on projects as well as participate in seminars with the instructor, guest speakers and class members.

*Prerequisites:* FNST 301-3, or permission of the Program Chair

**FNST 411-(3-6) Advanced Topics in Indigenous Religion and Philosophy** Review of Indigenous philosophies on a selected topic (such as relations with animals or luck and hunting). The significance of the philosophies will be considered in the light of indigenous concepts of psychology and personality, ecological concerns, and nationhood. First Nations representatives will participate in the seminar.

*Prerequisites:* FNST 303-3, or permission of the Program Chair.

**FNST 412-3 Political Economy and First Nations Women** The purpose of this course is to understand how the political economy acts upon First Nation's 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 or permission of the Program Chair.

*Precluded:* WMST 412-3 and FNST 412-3

**FNST 413-(3-6) Topics in Aboriginal Women's Studies** This course explores topics relating to aboriginal women in both Canadian and international contexts. Topics may vary from year to year. This course may be repeated for credit (maximum six credit hours).

*Prerequisites:* FNST 100-3 or WMST 100-3 or permission of the instructor

*Precluded:* WMST 413-(3-6)

**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

**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 neighbouring 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

**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-(3-6) Special Topics in First Nations Studies** This course examines in detail topics selected by the instructor. This course may be repeated for credit (maximum six credit hours).

*Prerequisites:* permission of the Program Chair

**FNST 499-(3-6) Independent Study in First Nations Studies** This course enables students to read in depth in an area of First Nations Studies not normally covered by established principal or ancillary courses in the First Nations Studies program. This course may be repeated for credit (maximum six credit hours)

*Prerequisites:* permission of the Program Chair

# Course Descriptions: Forestry

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## Forestry

**FSTY 201-3 Forest Plant Systems** This course provides knowledge and understanding of classification, nomenclature and identification, morphology, phenology, range, natural history, evolutionary relationships, and basic ecology of important trees (native and exotic) and forest plant families (woody and herbaceous) in western Canada. The course also provides a survey of plant indicator potential and attributes significant to vegetation management. The course includes the development of a plant collection and field trips are required.

*Prerequisites:* BIOL 101-4 and BIOL 102-4

*Co-requisites:* FSTY 205-3

**FSTY 205-3 Introduction to Soil Science** 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, 120-1, 121-1

**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 101-4 and 102-4

**FSTY 207-1 Terrestrial Ecological Classification** Terrestrial Ecological Classification explores the critical concepts and methodology of classifying terrestrial ecosystems. The course explores the historical context and attributes of several systems of ecological classification. The primary focus is Biogeoclimatic Ecosystem Classification, the standard for natural resource managers in BC. The course also explores regional examples of site classification.

*Prerequisites:* BIOL 101-4 and BIOL 102-4

**FSTY 208-3 Silvics** This course covers the physiology and life history of trees, silvicultural attributes of tree species of Western Canada, ecological site quality, and applications in silviculture.

*Prerequisites:* FSTY 201-4 and FSTY 205-3

*Co-requisites:* FSTY 206-3

**FSTY 209-4 Forest Biology and Silvics** Forest Biology and Silvics explores critical aspects of the biology of forest floor organisms and the autecology of associated regional tree species. The course also examines the biology and ecology of forest ecosystems, the structure and function of forest trees and stands, the influence of biotic and abiotic factors on tree and stand growth, interactions between forest ecosystems and ecological site conditions, and silvicultural attributes of tree species of Western Canada.

*Prerequisites:* BIOL 101-4 and BIOL 102-4 and FSTY 201-3

**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 305-4 Silviculture** Silviculture examines forest ecology, stand dynamics, basic management practices and harvesting. Content includes stand dynamics, natural and artificial regeneration methods, site preparation, intermediate stand treatments, silvicultural systems, forest harvesting concepts and practices, and relationships of natural resource management to silviculture practices. Field trips are required.

*Prerequisites:* FSTY 201-3, FSTY 205-3, FSTY 209-4, NREM 203-3

**FSTY 307-3 Disturbance Ecology and Forest Health** This lecture course explores principles and concepts of disturbance ecology, including examples of fire, disease and insects. Links between anthropomorphic disturbances, fire risk and forest health problems, and approaches to forest health management are explored.

*Prerequisites:* 60 credit hours, FSTY 201-3, FSTY 207-1, FSTY 209-4

**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:* ENSC 201-3 and FSTY 201-4 or BIOL 301-3

**FSTY 310-3 Forest Economics** 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:* ORTM 310-4

**FSTY 315-3 Forest Soil Management** This course examines the physical, chemical and biological determinants of forest soil productivity and introduces the basic principles of forest site classification, emphasizing systems used in British Columbia. Forest practices in all phases of land management (harvesting, site preparation, stand tending ) is examined to provide an understanding of their effects on soil properties and productivity. The regulatory framework governing soil conservation in BC forestry is reviewed, along with methods used to restore productivity to damaged forest soils. Field trips and laboratory exercises provide experience in techniques for assessing forest soil properties and management impacts.

*Prerequisites:* FSTY 205-3

**FSTY 317-1 Forest Disturbance Agents** This laboratory course focuses on the identification of pathogens and insects of importance in forest health. The course is required for students in the Natural Resources Management degree Forest Ecology and Management major, and it should be taken concurrently with FSTY 307-3. Field trips are required.

*Prerequisites:* 60 credit hours

*Co-requisites:* FSTY 307-3

*Preclusions:* FSTY 307-4

**FSTY 405-3 Forest Growth and Yield** This course explores factors influencing forest yields, traditional prediction methods, and growth and yield simulation. The course also explores stand dynamics, quantitative implications of management treatments and environmental limitations to tree and stand growth.

*Prerequisites:* NREM 203-3 and MATH 152-3, MATH 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 are required.

*Prerequisites:* FSTY 205-3 or permission of the instructor

**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

*Co-requisites:* 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 101-3 Human Geography** This course provides 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

*Precluded:* GEOG 201-3

**GEOG 200-3 Geography of BC** This course provides 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. The course takes a regional approach to understanding the links between the physical geography of the province and its settlement patterns, resource use and economic development.

*Prerequisites:* none

**GEOG 202-3 Economic Geography** The central focus of this course is the spatial organization of economic activity with particular attention to understanding spatial patterns in the context of the global economy. 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 204-3 Introduction to GIS for the Social Sciences** To manipulate database and spatial information and to create GIS based illustrations and maps. This lab-based introductory course will provide a foundation in GIS for social scientists. Students will incorporate data searching and acquisition, manipulation of information in spreadsheets, reviewing quality of data, spatial properties of geographic information, linking meta-data to spatial features, basic cartographic techniques and map production.

*Prerequisites:* none

# Course Descriptions: Geography

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**GEOG 205-3 Cartography and Geomatics** This course examines mapping techniques and thematic layers, using GIS software in the labs. Topics include coordinate systems, symbolization, terrain depiction and visualization, aerial photography, satellite images and Global Positioning Systems (GPS). It introduces students to the world of maps and to Geographic Information Systems (GIS) technology.

*Prerequisites:* none

**GEOG 206-3 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 101-3 or permission of the instructor  
*Precluded:* GEOG 304-3

**GEOG 207-3 Historical Geography of Canada** This course takes a detailed look at Canada since the beginning of European contact, with emphasis on the changing geographical patterns of settlement, economy and culture.

*Prerequisites:* None  
*Precluded:* GEOG 307-3

**GEOG 210-3 Geomorphology** This course reviews 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 or Grade 12 Physics or CORE 102-3, or permission of instructor

**GEOG 300-3 Geographic Information Systems** This lab-based course examines the data management and analysis capabilities of GIS, with special emphasis on natural resources and environmental studies. Topics include methods of data input, coordinate systems, data sources, attributes, formats and conversion, digital elevation data, raster-vector models, data availability and quality. Lectures introduce two labs per week.

*Prerequisites:* 30 credits or permission of instructor

**GEOG 301-3 Cultural Geography** This course examines how the human organization of space differs across cultures. Cultural landscapes, patterns and processes of cultural change and interactions, and 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 101-3 or 206-3 or permission of instructor

**GEOG 302-3 Geography of Russia** This course explores the interaction of the physical and human landscapes of Russia, emphasizing changing spatial relations in the post-Soviet period, nationality issues, and the environment.

*Prerequisites:* 30 credit hours, and GEOG 100-3 or 101-3, or permission of instructor

**GEOG 303-3 Recreational Geography** This course considers 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 101-3

**GEOG 305-3 Political Geography** This course provides an introduction to the field of political geography by examining the interactions between politics and space at a variety of scales. In order to explore these interactions special emphasis is placed on the relationships between political decision-making and geographical location.

*Prerequisites:* GEOG 100-3 or 101-3 and 60 credit hours

**GEOG 306-3 Geography of International Development** This course examines themes, concepts, theories, and trends which define the study of international development from a geographical perspective. Students will gain an understanding of the historical and contemporary challenges of global inequality, debt, foreign aid, disasters, displacement, and development assistance. Case studies from around the world are used to provide context-specific, gender differentiated information about international development problems and promise.

*Prerequisites:* GEOG 100-3 or GEOG 101-3 or GEOG 206-3 or permission of instructor

**GEOG 308-3 Introduction to Medical Geography** This course provides an introduction to the basic themes, concepts, theories, models, and methods of medical geography.

*Prerequisites:* 60 credit hours and GEOG 100-3 or GEOG 101-3  
*Precluded:* HHSC 421-3

**GEOG 309-3 Geographies of Migration and Settlement** This course examines urbanization, globalization, and international migration as dynamic processes related to human settlement which are changing our social and physical spaces. The course examines major theoretical approaches to global migration processes, and the settlement forms and organization resulting from migration, refugee movements, and globalization, with particular emphasis on reconfigured urban and rural spaces in the Americas.

*Prerequisites:* 30 credit hours, GEOG 206-3, or permission of the 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:* ENSC 201-3

**GEOG 311-3 Concepts in Geomorphology** This course surveys 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 100-4

**GEOG 322-3 Economic Geography of Northern BC** This course builds upon basic concepts in economic geography through a specific examination of northern British Columbia.

*Prerequisites:* GEOG 202-3

**GEOG 333-3 Geography Field School** Students apply field methods in physical and/or human geography towards an integrated study of local and global environments.

*Prerequisites:* none

Class Restrictions: 60 credit hours

**GEOG 401-3 Resource Geography** This course examines global resources and their role in questions of conservation and economic development. Emphasis is placed on global and international resource issues and the role of public policy.

*Prerequisites:* 60 credit hours and at least one of GEOG 100-3, GEOG 101-3 or GEOG 202-3.

**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 environments; impacts of internal colonialism; and geographical perspectives on Northern self-determination movements.

*Prerequisites:* 60 credit hours, GEOG 100-3, and GEOG 101-3 or GEOG 206-3 or permission of the instructor

**GEOG 403-3 Aboriginal Geography** This course analyzes aboriginal land tenure systems, processes of land alienation, and First Nations methods used for regaining control over land, including "land claims". Case studies are drawn from First Nations in Canada, and the Circumpolar North.

*Prerequisites:* 60 credit hours, GEOG 101-3 or GEOG 206-3 or permission of the instructor

**GEOG 405-3 Fluvial Geomorphology** This course investigates 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 311-3

**GEOG 411-3 Advanced Elements in Geomorphology** This course emphasizes Quaternary geomorphology. Advanced topics vary from year to year and include examples from the North and BC.

*Prerequisites:* GEOG 210-3, 311-3

**GEOG 412-3 Geomorphology of Cold Regions** This course provides a detailed look at the processes and landforms of cold regions.

*Prerequisites:* GEOG 210-3 or permission of the instructor

**GEOG 413-3 Advanced GIS** This course is 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

**GEOG 414-3 Weathering Processes** A detailed investigation of weathering processes and their applied aspects.

*Prerequisites:* GEOG 311-3

**GEOG 422-3 Geography of the World Economy** This advanced seminar course surveys theoretical approaches in economic geography related to interpreting economic restructuring within the global economy, especially with regard to uneven development and its environmental impacts. Specific topics covered include world-systems theory, dependency theory and the eco-economy approaches, as well as the role of international agreements and trade and partnerships.

*Prerequisites:* 60 credit hours and GEOG 202-3, or permission of the instructor

**GEOG 424-3 Social Geography of Northern Communities** This advanced seminar course examines the social geography of communities within the specific context of the North. It emphasizes case study research drawing upon examples from northern BC.

*Prerequisites:* 60 credit hours and GEOG 206-3, or permission of the instructor

**GEOG 426-3 Geographies of Culture, Rights and Power** This seminar examines geographical approaches to culture, rights, and power as they relate to issues of political violence experienced by indigenous peoples, labour organizations, and social movements. Primary geographical focus is on the Mesoamerican region, particularly Guatemala, El Salvador, and Chiapas, Mexico. Implications for Canada and the United States are explored through consideration of refugee movements, foreign policy, and grassroots solidarity organizing.

*Prerequisites:* GEOG 206-3 or GEOG 301-3 or permission of instructor

*Precluded:* GEOG 498-3 Culture, Rights and Power

**GEOG 428-3 Advanced Medical Geography** This advanced course provides for a more intricate understanding of the spatial aspects of health and health care delivery. Students apply population health research techniques and tools such as GIS to the circumstances of people in their lived environments. Emphasis is placed on rural and remote places in northern BC.

*Prerequisites:* 60 credit hours, GEOG 204-3 and GEOG 308-3

**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

# Course Descriptions: Geography, Health and Human Science

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**GEOG 432-3 Remote Sensing** This course covers 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

**GEOG 440-(2-6) Internship** May be repeated for credit (maximum six credit hours).

**GEOG 457-3 Advanced Remote Sensing** This project-oriented course focuses on advanced classification procedures incorporating digital elevation data, fuzzy and object-oriented classification, and new millennium data sources including ASTER, RADAR, MODIS, LiDAR and high-resolution scenes. Repeat imagery is used to assess local and global changes in land cover, oceanic, atmospheric and/or cryospheric environments.

*Prerequisites:* GEOG 432-3 or permission of the instructor

**GEOG 498-(1-3) Special Topics** May be repeated for credit (maximum three credit hours).

**GEOG 499-(3-6) Independent Studies** Concentration is 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 101-3 Introduction to Health Sciences I: Issues and Controversies** A review of current issues and controversies with respect to individual and population health. Topics covered will include infectious disease, cancer, genetic disease, behavioural determinants of health, addictive behaviour, eating behaviour and the role of nutrition in chronic disease.

*Prerequisites:* none

**HHSC 102-3 Introduction to Health Sciences II: Rural and Aboriginal Issues** This course will provide an overview of individual and population health, health care systems, legislation, and the roles of the various health care professions in rural and aboriginal communities. Models of interdisciplinary cooperation, models of community health, and ethical issues are also covered.

*Prerequisites:* none

**HHSC 103-3 Health Care Systems** This course examines health care systems from a public versus private perspective and explores how various systems impact the health and well-being of patients.

*Prerequisites:* Enrollment in the BHSc program, or permission of the instructor.

**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 201-3 Ethics and Law in Health Care** This course examines ethical and legal concepts as applied to health care and health care research. Further, students explore how new technology and therapeutic practices change the parameters of ethical and moral reasoning, and the impact this has on health law. In addition, students are exposed to ethical practices and policies that form the foundation of health related research.

*Prerequisites:* Enrollment in the BHSc program, or permission of the instructor.

**HHSC 311-3 Nutrition** This course reviews nutrient requirements across the lifespan and physiological connections of diet to health and disease. Therapeutic aspects of hyper alimentation and special diets in disease states are covered.

*Prerequisites:* Enrollment in the BHSc program.

*Precluded:* NURS 303-3, ANTH 311-3 (this is cross-listed with HHSC 311-3)

**HHSC 330-3 Health Information Management Technology** This course examines the birth and evolution of Health Information Management Technology (HIMT) within the health care system. Topics include the nature of data gathering and analysis in evidence-based practice, the determination of health resource needs, and the application of HIMT in risk management, epidemiology and demographics. It is strongly recommended that students have a working knowledge of spreadsheets and familiarity with databases before taking this course.

*Prerequisites:* Upper level standing in the BHSc program, or permission of the instructor.



## Course Descriptions: Health and Human Science

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**HHSC 350-3 Introduction to Epidemiology** This course applies epidemiological principles in the examination of patterns of disease and disability among populations, particularly those in northern latitudes. It introduces students to the interpretation of vital statistics, the critique of cross-sectional, case-control and cohort design and the principles of screening.

*Prerequisites:* Upper level standing in the BHSc program.

*Precluded:* NURS 306-3

**HHSC 351-3 Research Design and Methods for Health Sciences** This course examines qualitative and quantitative research methods and design in the health field and the ethical and legal issues associated with health care research.

*Prerequisites:* MATH 242-3 or ECON 205-3, Upper level standing in the BHSc program, or permission of the instructor.

**HHSC 370-3 Occupational Health** This course introduces students to the scientific basis of occupational health, specifically the relevant principles and concepts of injury prevention, disability management, ergonomics, toxicology, wellness and the general concepts of healthy workplaces. The nature of common occupational health hazards and their effect on humans is examined. Examples of common preventative and protective measures and controls are also reviewed.

*Prerequisites:* Upper level standing in the BHSc program, or permission of the instructor.

**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

**HHSC 421-3 Medical Geography** This course provides an introduction to the basic themes, concepts, theories, models and methods of medical geography.

*Prerequisites:* Upper level standing in the BHSc program.

*Precluded:* GEOG 308-3

**HHSC 430-3 Toxicology and Environmental Health** This course provides an overview of the basic principles of environmental toxicology. The occurrence and health effects of the following toxicants are discussed: inorganic ions and anions, metals, hydrocarbons, polychlorinated biphenyls and polychlorodibenzo-p-dioxins, insecticides, herbicides, rodenticides, detergents, organometallic compounds, radioactive isotopes, and air pollutants. Methods for safety evaluation, risk assessment and basis for current Canadian law and regulatory procedures are presented. Case studies on environmental health issues are discussed.

*Prerequisites:* CHEM 100 and upper division standing or permission of the instructor.

*Precluded:* HHSC 630-3

**HHSC 440-(3-6) Special Topics in Health Sciences** The topics for this course vary, depending on student interest and faculty availability. This course may be repeated for up to 6 credits total (with the permission of the instructor and program chair).

*Prerequisites:* Upper level standing in the BHSc program or permission of the instructor.

**HHSC 451-3 Health Sciences Research Project** This course enables students, individually or in groups, to explore a particular health issue in depth by defining a problem, collecting, analyzing and interpreting secondary and primary data, and presenting results in written and oral formats.

*Prerequisites:* HHSC 351-3, or permission of the instructor.

**HHSC 471-3 Aboriginal Health and Chronic Disease** This course provides students an opportunity to examine critically the current health status of Aboriginal people, including the incidence of chronic illness and mental health issues. Students are introduced to traditional Aboriginal healing practices intended to address the current state of Aboriginal health. This course is designed to be delivered in collaboration with an Aboriginal/First Nations community partner.

*Prerequisites:* Upper level standing in the BHSc program.

*Precluded:* FNST 316-3

**HHSC 473-3 Health Promotion** This course examines health promotion theories, principles, and underlying philosophies within a primary health care framework. Students identify and critique health promotion issues and explore strategies which promote well-being among individuals, groups, and communities.

*Prerequisites:* Upper level standing in the BHSc program.

*Precluded:* NURS 402-3

# Course Descriptions: History

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## History

**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 120-3 Sex Changes: An Introduction to the History of Sexuality** This course examines the variability of sexuality, and its connection with larger historical processes, from ancient times to the present; while offering a broad perspective on the sexual past, the course emphasizes the West after 1800.

**HIST 125-3 Introduction to Crime and History** This course introduces students to the historic context and debate over questions of crime, punishment, and reformation. The specific emphasis depends on the instructor's expertise and the course may include examinations of police history, capital punishment, the creation of penitentiaries, or the modern phenomenon of serial murder. When the subject matter differs substantively the course may be repeated for credit (maximum six credit hours) with the permission of the instructor and the Program Chair.

**HIST 130-3 History Through Film** This course introduces students to the questions and issues arising from the use of historical settings, characters, and events in film. The specific emphasis depends on the instructor's expertise and the course may include examinations of history in film in varied settings or themes. When the subject matter differs substantively the course may be repeated for credit (maximum six credit hours) with the permission of the instructor and the Program Chair.

**HIST 180-3 War, Terror & Society I** This course will provide an introduction to the relationship between war and society from the classical age of Greece and Rome to the French revolutionary wars. Themes may include the composition and training of military forces, the role of beliefs and ideologies in the conduct of war, the various kinds of human conflict, the importance of technological change and the impact of war on social and political institutions.

*Prerequisites:* none

**HIST 181-3 War, Terror & Society II** This course provides an introduction to the relationship between war and society from the French revolutionary wars to the war in Iraq and beyond. Themes may include the composition and training of military forces, the role of beliefs and ideologies in the conduct of war, the various kinds of human conflict, the importance of technological change and the impact of war on social and political institutions.

*Prerequisites:* none

**HIST 190-3 The West and the World to 1660** This course examines the history of the Western world from antiquity to 1660, with a particular focus on the history of the West's interactions with other, non-western, societies. Topics to be covered will include the Roman

Empire, Christianity, feudalism, the Renaissance, the Reformation, and European expansion overseas. These developments changed Europe, and the world beyond Europe, and are affecting us still. Students will also be introduced to the discipline of history and its practical skills in effective reading, research, analysis, and presentation.

*Prerequisites:* none

**HIST 191-3 The West and the World Since 1660** This course examines the history of the Western world since the rise of absolutist monarchies in the late 17th century, with a particular focus on the history of the West's interactions with other, non-western societies. Topics to be covered include absolutism, nationalism, industrialization, the French Revolution and the world wars of the 20th century. These developments changed Europe, the world beyond Europe, and are affecting us still. Students will also be introduced to the discipline of history and its practical skills in effective reading, research, analysis, and presentation.

*Prerequisites:* none

**HIST 205-3 Surveys in National History** This course examines the political, social, and economic history in one or more specified nations and periods under study. The nation(s) under study vary according to the expertise of the instructor and may include Australian, Japanese, Chinese, or British national history. When the subject matter differs substantively the course may be repeated for credit (maximum six credit hours) with the permission of the instructor and the Program Chair.

**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

*Precluded:* HIST 200-3

**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

*Precluded:* HIST 220-3

**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

*Precluded:* HIST 220-3

**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 280-3 Colonial Latin America** This course is an introduction to the history of Latin America from the fifteenth century to the early nineteenth century. Topics to be discussed include Amerindian polities and empires on the eve of contact with Europe; contact, conquest, and colonization; conversion and religious adaptation; colonial imperial administration; Latin American economy in the world system; cultural conflict, resistance, and hybridization among European, African, and Aboriginal peoples; and the gradual emergence of distinctly Latin American identities.

*Prerequisites:* none

**HIST 281-3 Republican Latin America** This course is an introduction to the history of modern Latin America from the Wars of Independence in the early nineteenth century to the present day. Topics discussed include the Wars of Independence; personalist rule and institutional instability in the first half of the nineteenth century; class, race, gender, and Latin American identity; neocolonialism and the reintegration of Latin America into the global economy; modernity and Latin American nationalism; socialist revolution and conservative dictatorship; and neoliberalism and its discontents at the end of the twentieth century.

*Prerequisites:* none

**HIST 290-3 The Contemporary World** This course explores the conflicting identities and aspirations of local, national, and international groups and communities in the 20th century world. The themes of social movements, ethnicity, nationalism, imperialism, internationalism, and decolonization are explored from a global perspective.

*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 The Prairie West** This course considers the history of the three prairie 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:* HIST 210-3 and HIST 211-3 or permission of the instructor

**HIST 303-3 British Columbia** This course examines 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:* HIST 210-3 and HIST 211-3 or permission of the instructor

*Precluded:* HIST 303-3 or HIST 406-3

**HIST 309-3 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:* HIST 210-3 and HIST 211-3

*Precluded:* HIST 402

**HIST 311-3 History of Feminism** This course will survey the history of those various political, social and cultural movements-suffragism, women's liberation etc.-which have combined to create the phenomenon of feminism. Attention will also be devoted to the diverse theories, ideas and values that underpin contemporary feminism.

*Prerequisites:* HIST 270-3/WMST 270-3/HIST 312-3/WMST 312-3, or HIST 312-3, or permission of the instructor

*Precluded:* WMST 311-3

**HIST 312-3 An Introduction to the History of Gender** The course explores issues of gender in historical context using a case study approach.

*Prerequisites:* none

*Precluded:* WMST 270-3/WMST 312-3, HIST 310-3 & HIST 270-3

**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:* HIST 221-3 and HIST 222-3 or permission of the instructor

## Course Descriptions: History

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**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 330-3 Lectures in Indigenous History** This course examines the political, social, and economic history in one or more specified Indigenous area(s) and period(s). The topics under study vary according to the expertise of the instructor and may include areas world wide. When the subject matter differs substantively the course may be repeated for a maximum of six credit hours with the permission of the instructor and the Program Chair.

*Prerequisites:* One course in FNST or HIST or permission of the instructor

*Preclusions:* HIST 390 and HIST 391

**HIST 331-3 Lectures in Military History** This course examines the military history in one or more specified nations and/or periods. The topics under study vary according to the expertise of the instructor and may include: the origins and causes of war; the impact of new technologies on tactics and strategy; military and naval innovation and resistance to innovation; the changing relationship of offense and defense; the concept of mass war; and the relationship of military institutions to society. When the subject matter differs substantively the course may be repeated for a maximum of six credit hours with the permission of the instructor and the Program Chair.

*Prerequisites:* One History course or permission of the instructor

**HIST 332-3 Lectures in Social History** This course examines the social history in relation to regional, national, or international contexts through time in one or more specified nations and/or periods. The topics under study vary according to the expertise of the instructor and may include major social changes, the social origins of major historical events, or the history of particular social movements. When the subject matter differs substantively the course may be repeated for a maximum of six credit hours with the permission of the instructor and the Program Chair.

*Prerequisites:* One History course or permission of the instructor

**HIST 333-3 Lectures in Cultural History** This course examines the cultural history in one or more specified nations and/or periods. The topics under study vary according to the expertise of the instructor and may include surveys in cultural events such as the Renaissance or Modernism or examination of how events such as war, economic crisis, technological change, or changing notions of gender or race have shaped culture through time or within specific periods or regions. When the subject matter differs substantively the course may be repeated for a maximum of six credit hours with the permission of the instructor and the Program Chair.

*Prerequisites:* One history course or permission of the instructor.

**HIST 354-3 The Circumpolar World** This course provides an introduction to the nature of nordicity through the history of areas such as northern Canada, Alaska, the Nordic Countries, and Siberia.

*Prerequisites:* None

*Precluded:* HIST 255-3

**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 break-up. 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 Nordic History** This course examines the history of Northern Europe from the 16th century to the present, with particular attention to nation-building, indigenous populations, women, and the rise of the welfare state.

*Prerequisites:* HIST 255-3 or HIST 354-3 or permission of the instructor

**HIST 360-3 An Introduction to Environmental History** This course examines 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 are considered in a variety of historical settings.

*Prerequisites:* none

*Precluded:* HIST 260-3

**HIST 380-3 Modern Mexico** This course examines the history of Mexico from Independence in 1821 to the present, with emphasis on state building, economic development, and cultural transformations.

*Prerequisites:* HIST 281-2 (Republican Latin America) or permission of the instructor.

**HIST 390-3 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:* HIST 210-3 and HIST 211-3 or permission of the instructor

*Precluded:* HIST 400-3

**HIST 391-3 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:* HIST 221-3 and HIST 222-3 or permission of the instructor

*Precluded:* HIST 420-3

**HIST 405-(3-6) Topics in the Canadian North** This course focuses 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. The course may be repeated with the permission of the instructor and program chair if the subject matter of the course differs substantially.

*Prerequisites:* HIST 301-3 or permission of the instructor

**HIST 407-(3-6) Topics in Local History/Methodology** This course examines the craft of history by focusing on the history of localities in northern British Columbia. Students are expected to conduct their own research using primary sources. The course may be repeated with the permission of the instructor and program chair if the subject matter of the course differs substantially.

*Prerequisites:* HIST 200-3 or permission of the instructor

**HIST 421-(3-6) Topics in Environmental History** This course explores 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. The course may be repeated with the permission of the instructor and program chair if the subject matter of the course differs substantially.

*Prerequisites:* One of HIST 360-3, ENVS 306, GEOG 207, POLS 334, FNST 304 or permission of the instructor.

**HIST 440-(3-6) Internship in History** This is an academic course delivered in relevant workplaces (museums, archives, etc). Students are supervised in a manner that enables them to integrate their academic skills with practical application. This course may be repeated once for a total of six credits.

*Prerequisites:* History interns must be History majors who have completed 60 credit hours. Permission of the Chair of History is required for registration.

**HIST 453-(3-6) Topics in the History of Gender** This course will examine the gendered experience of men and women in several countries. May be repeated for credit (maximum six credit hours) with the permission of the instructor and the Program Chair (permission to be given only when the subject matter differs substantially).

*Prerequisites:* HIST 270-3 or HIST 312-3 or permission of the instructor

**HIST 454-(3-6) Topics in Women's History** This course will examine the diversity of women's experience by comparing a number of countries. May be repeated for credit (maximum six credit hours) with the permission of the instructor and the Program Chair (permission to be given only when the subject matter differs substantially).

*Prerequisites:* HIST 270-3 or HIST 312-3 or permission of the instructor

**HIST 456-(3-6) Topics in 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. May be repeated for credit (maximum six credit hours) with the permission of the instructor and the Program Chair (permission to be given only when the subject matter differs substantially).

*Prerequisites:* HIST 110-3 or permission of the instructor

**HIST 458-(3-6) Topics in Law, Order, and Society** This course explores the historical interrelationships of law, authority, and social ordering in several geographic contexts. The course may be repeated with the permission of the instructor and program chair if the subject matter of the course differs substantially.

*Prerequisites:* Two History courses or permission of the instructor.

**HIST 490-(3-6) Topics in Historiography** This course examines particular themes in the history of history as a discipline. Topics might include the study of a particular school of historical thought, different interpretations of a major historical event, noteworthy historical controversies or the work of a significant historian. This course may be repeated for a maximum of six credit hours with the permission of the instructor and the Program Chair (permission to be given only when the subject matter differs substantially).

*Prerequisites:* HIST 300-3 and one additional History course or permission of the instructor.

**HIST 491-(3-6) Topics in Intellectual History** This course examines various themes in the history of ideas. Topics might include major intellectual developments such as the scientific revolution, the Enlightenment or modernism; or the influence of ideas on historical events such as the American and French revolutions may be examined; or particular movements, schools of thought or seminal thinkers may be the focus of the course. This course may be repeated for a maximum of six credit hours) with the permission of the instructor and the Program Chair (permission to be given only when the subject matter differs substantially).

*Prerequisites:* HIST 300-3 and one additional History course or permission of the instructor.

**HIST 492-(3-6) Topics in Cultural History** This course examines various themes in the history of culture. Topics might include major developments in the history of culture such as the Renaissance or Modernism; or the ways in which major historical events such as the Reformation or the First World War have reshaped culture might be examined; or particular cultural movements (such as classicism or 1960s counter-culture) may be the focus of the course. This course may be repeated for a maximum of six credit hours with the permission of the instructor and the Program Chair (permission is given only when the subject matter differs substantially).

*Prerequisites:* HIST 300-3 and one additional History course or permission of the instructor.

# Course Descriptions: History, International Exchange, International Studies

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**HIST 493-(3-6) Topics in Social History** This course will examine various themes in social history. Topics might include major social changes such as the Industrial Revolution or Canadian urbanization; or the social origins of major historical events such as the Reformation or the Russian Revolution might be examined; or particular social movements (such as socialism or utopianism) may be the focus of the course. May be repeated for credit (maximum six credit hours) with the permission of the instructor and the Program Chair (permission to be given only when the subject matter differs substantially).

*Prerequisites:* HIST 200-3 and HIST 300-3

**HIST 494- (3-6) Topics in Aboriginal History** This seminar course examines particular aspects of aboriginal history in Canada. Participants read, evaluate, and discuss some of the most influential literature on the particular topic of the course, and complete a major research paper in Canadian aboriginal history. The course may be repeated with the permission of the instructor and program chair if the subject matter of the course differs substantially.

*Prerequisites:* HIST 390-3

**HIST 498-(3-6) Topics in History (International)** This course covers particular aspects of international history selected by the instructor. The course may be repeated for credit (maximum six credit hours) with the permission of the instructor and the Program Chair (permission to be given only when the subject matter differs substantially).

*Prerequisites:* HIST 150-3 or HIST 290-3, or HIST 241-3

**HIST 500-3 Honours Historiography: Contemporary Theories and Methods** The course traces the development or historical thought from 1920's 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 505-6 Honours Thesis** The Honours Thesis consists of a specialized research project developed in consultation with, and supervised by, a faculty member in the History Program. Credit is based on the presentation of research results in a formal paper of 7,500 to 10,000 words, and defended in an oral examination (the examining committee to consist of the supervisor and a minimum of three additional History Faculty members).

*Prerequisites:* HIST 500-3, HIST 501-3, and maintenance of a minimum GPA of 3.33

*Precluded:* HIST 502-3 and HIST 503-2

## International Exchange

**INTX 288-(1-18) 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 30 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.

**INTX 488-(1-18) 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

## Course Descriptions: International Studies

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**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 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

**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 240-3 Contemporary Circumpolar North** This course is an introduction to the physical, biological, and human environments of the Arctic and Subarctic regions, and their interactions and relations to the global system. The course also introduces northern cultures, economic development processes, political systems, and international cooperation.

*Precluded:* NORS 101-3

**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

# Course Descriptions: International Studies

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**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 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:* 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 309-3 Global Science and Technology** This course is an inquiry into the role of science and technology in an era of "globalization". The origins of science & technology and their 'merger' in the late 1800s provide the foundation for analysis of science and technology's relationship to present-day security, economic, social, and environmental issues at the international level.

*Prerequisite:* INTS 205-3, 60 credits or permission of the instructor  
*Precluded:* INTS 498-3-Science and Technology in a Global Word

**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 325-3 Russian Film and Society** This course examines films made in the USSR and in post-Soviet Russia as a reflection of a specific worldview. Special attention is paid to political, historical, sociological and cultural contexts.

*Prerequisites:* 60 credits or permission 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 402-3 Pacific Affairs** This course provides 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, 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 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

**INTS 460-3 Issues in Canadian Foreign Relations** A detailed examination of selected problems in Canada's foreign relations.

*Prerequisites:* INTS 205-3 and 60 credit hours, or permission of the instructor

**INTS 470-3 International Environmental Policy** This seminar considers international actions dealing with environmental problems such as climate change, ozone depletion, hazardous waste, POP's, war and the environment, fresh water quality, deforestation, biodiversity and endangered species. Discussion focuses on the ways and the extent to which these problems can be met by international agreements and governance arrangements, or what international studies calls environmental "regimes". Two basic questions will be addressed. What factors facilitate the formation of international environmental regimes and can these regimes be effective while overcoming the "tragedy of the commons".

*Prerequisites:* INTS 205-3 and 60 credit hours, or permission of the instructor

**INTS 480-3 Pacific Environment** This is a seminar on international environmental problems of the Pacific region and efforts to solve them, with particular attention to the theory and practice of international environmental cooperation as applied to the Pacific region.

*Prerequisite:* INTS 205-3, 60 credit hours or permission of the instructor

*Precluded:* INTS 498-3-Pacific Environment

**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 591-3

# Course Descriptions: International Studies, Mathematics

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**INTS 591-3 Honours Thesis** The honours thesis comprises a major specialized research project normally analyzing the applicability of an important concept, theory, issue or development in international studies. Each honours thesis requires the approval of the honours advisor, and has a supervisor and a second reader, and is 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 enroll 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.*

*Students enrolling in any Mathematics course with prerequisites are required to have completed all prerequisite courses for that course with a C- or better, or have permission to enroll from the Program Chair.*

**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 or 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 or 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

The course covers functions and graphs, linear systems of equations, matrix notation and properties, matrix inversion, linear programming, sets, counting and probability, and an introduction to actuarial mathematics. This course is offered primarily for students in the School of Business and the Economics Program.

*This course is offered primarily for students in the School of Business and the Economics Program.*

*Prerequisites:* 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 or MATH 105-3

### MATH 190-4 Mathematics for Elementary School

**Educators** This course develops an understanding of mathematical concepts and relationships used in the elementary school curriculum. The content focus is on numbers and number systems, patterns and relations, shapes and space, and statistics and probability. Problem solving and deductive reasoning are stressed throughout the course.

*Prerequisites:* Principles of Mathematics 11 or the equivalent or permission of the Instructor. Students who have taken MATH 100-3, MATH 105-3, MATH 152-3 or equivalent require permission of the Chair.

**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 coordinates, 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.

*Prerequisites:* MATH 101-3

**MATH 201-3 Introduction to Complex Analysis** Complex numbers and topology of the complex plane, theory of analytic functions, precise definition of limit and continuity, harmonic functions, contour integration, Cauchy's integral theorem and integral formula, series representation for analytic functions, residue theory, the fundamental theorem of algebra.

*Prerequisites:* MATH 200-3

**MATH 220-3 Linear Algebra** Linear Algebra Systems of linear equations, matrix algebra, determinants, vector geometry, vector spaces, eigenvalues and diagonalization. Some use will be made of appropriate software, but previous computer experience is not required.

*Prerequisites:* Math 100-3 or MATH 105-3

**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

*Co-requisite:* MATH 200-3

**MATH 224-3 Foundations of Modern Mathematics** This course develops the essential components of Zermelo-Fraenkel set theory and from these ideas constructs the standard number systems. Topics include basic logic and methods of proof, axioms of set theory, mathematical induction, the Axiom of Choice, ordinal and cardinal numbers, the natural numbers, elementary number theory, the integers, and the rational, real, and complex number systems.

*Prerequisites:* MATH 100-3 or MATH 105-3

*Recommended:* MATH 101-3

*Precluded:* MATH 222-3

**MATH 226-3 Advanced Linear Algebra** This is a second course in linear algebra. Topics include vector spaces, eigenvalues and diagonalization, linear transformations, inner product spaces.

*Prerequisites:* MATH 220-3

**MATH 230-3 Linear Differential Equations and Boundary Value Problems** This course is an introduction to differential equations. Topics include first order differential equations (separable, exact, and linear), basic Euler and Runge-Kutta numerical methods of solution, homogeneous and nonhomogeneous linear second order equations with classical methods of solution (variation of parameters and reduction of order), linear partial differential equations with examples (heat equation, Laplace's equation, wave equation), Fourier sine and cosine series with an application to boundary value problems.

*Prerequisites:* MATH 200-3

*Corequisites:* MATH 220-3

*Precluded:* MATH 332-3

**MATH 240-3 Basic Statistics** This course is an introduction to the basic principles of statistics and procedures for data analysis. Topics include gathering data, displaying and summarizing data, examining relationships between variables, probability models, sampling distributions, estimation and significance tests, inference for means and proportions in one and two sample situations, contingency tables, and simple linear regression. Students register in a computer lab corresponding to their area of interest.

*Preclusions:* MATH 242-3, MATH 342-3, ECON 205-3, and PSYC 315-4. Students who have completed MATH 341-3 or MATH 371-3 may not take MATH 240-3 for credit.

**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.

*Prerequisites:* Math 11 or Principles of Math 11

*Recommended:* Math 12 or Principles of Math 12

*Precluded:* MATH 340-3

**MATH 302-3 Theory of Metric Spaces** This course develops the essential components of metric space topology and the related ideas of convergence including convergence of sequences and series of functions. Topics include open, closed, bounded and compact sets in a metric space, the Bolzano-Weierstrass and Heine-Borel Theorems, continuous and uniformly continuous functions, uniform convergence.

*Prerequisites:* MATH 200-3 and MATH 224-3

*Strongly recommended:* MATH 201-3

*Precluded:* MATH 223-3 and MATH 300-3

**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 224-3

## Course Descriptions: Mathematics

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**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 224-3

*Recommended:* MATH 302-3

**MATH 333-3 Partial Differential Equations** An introduction to the classical theory of partial differential equations. Topics to be examined include first-order partial differential equations and the method of characteristics, classification of second-order equations, initial boundary-value problems in bounded regions, the method of separation of variables and Fourier Series, inhomogeneous equations. Examples will be discussed for the wave equation, the heat equation, and Laplace's equation.

*Prerequisites:* MATH 201-3, MATH 230-3

*Precluded:* MATH 430-3

**MATH 334-3 Ordinary Differential Equations** A continuation of the theory of ordinary differential equations, with a more rigorous examination of some of the fundamental notions in addition to an exploration of more advanced concepts. Topics include series solution methods to second-order equations, singular points, Bessel's and Legendre's equations, systems of first-order linear equations and phase plane analysis, nonlinear differential equations with introductory concepts of stability, and boundary-value problems.

*Prerequisites:* MATH 201-3, MATH 230-3

*Precluded:* after September 1, 2003, credit cannot be obtained for both MATH 334-3 and MATH 332-3

**MATH 335-3 Numerical Analysis I** An introduction to the theory and application of numerical approximation techniques. Topics to be examined include number systems, error sources and analysis, solution of nonlinear equations, solution of systems of linear equations, interpolation and approximation, and numerical differentiation and integration. 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, MATH 220-3, CPSC 100-4 (or equivalent programming experience)

*Precluded:* MATH 330-3

**MATH 336-3 Intermediate Differential Equations** This course is a continuation of MATH 230-3 and is designed to increase the depth and breadth of students' knowledge pertaining to differential equations. Topics include existence and uniqueness theory for ordinary differential equations, series solutions of differential equations, linear system theory, phase plane analysis and stability, boundary value problems and Green's Functions, general introduction to the theory of Fourier Series with an application to boundary value problems for the Heat Equation, Wave Equation and Laplace's Equation.

*Prerequisites:* MATH 230

*Preclusions:* MATH 334

**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

*Precluded:* MATH 242-3

**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. This course may not be used for credit towards any Mathematics or Computer Science major, minor, or joint major.

*Prerequisites:* MATH 100-3 or MATH 105-3 or MATH 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 371-3 Probability and Statistics for Scientists and Engineers** This course is a calculus-based introduction to the theory and application of probability and statistics. The topics to be covered include concepts of probability, events, and populations, probability theorems, the concept of a random variable, continuous and discrete random variables, joint probability distributions, distributions of functions of a random variable, moments, Chebyshev's inequality, the de Moivre-Laplace theorem, the central limit theorem, sampling and statistical estimation theory, hypothesis testing, simple regression analysis, and an introduction to the design of experiments.

*Prerequisites:* MATH 101-3

*Preclusions:* MATH 340-3, MATH 341-3

**MATH 372-3 Mathematical Statistics** This course introduces the theory of statistical inference. The topics to be covered from likelihood theory are maximum likelihood estimation, sufficiency, and the likelihood ratio test. The topics to be covered from frequentist theory are point estimation, unbiasedness, consistency, efficiency, confidence intervals, small sample and large hypothesis tests. The topics to be covered from Bayesian theory are risk, point estimation and credible intervals.

*Prerequisites:* MATH 371-3

*Preclusions:* MATH 340-3, MATH 341-3

**MATH 389-3 Special Topics in Mathematics** The topic of this course varies depending on student interest and faculty availability. May be taken any number of times provided all topics are distinct.

*Prerequisites:* permission of instructor

**MATH 402-3 Topological and Normed Linear Spaces** This course focuses on the properties of topological spaces and normed linear spaces, especially Banach spaces. Topics include inner product spaces, topological spaces, compact and locally compact spaces, classical Banach spaces, linear functionals and dual spaces, topological vector spaces, Hilbert space, orthogonal systems and Fourier series.

*Prerequisites:* MATH 226-3 and MATH 302-3 and MATH 321-3, or permission of the instructor

**MATH 403-3 Measure Theory and Integration** This course focuses on the development and properties of Lebesgue measure and the Lebesgue integral, with generalization to integration in abstract measurable spaces. Topics include outer measure, measurable sets and Lebesgue measure, measurable functions, differentiation of integrals, and the extension of these concepts to more general settings.

*Prerequisites:* MATH 302-3 or permission of the instructor

**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 425-3 Mathematical Logic** Introduction of the theory of formal systems and to the theory of recursion. Topics to be chosen from formal proof systems, propositional logic, first-order predicate logic, semantics, and the completeness and compactness theorems.

*Prerequisites:* MATH 320-3 or CPSC 340-3

**MATH 433-3 Topics in Partial Differential Equations** An introduction to techniques of applied mathematics with an emphasis on partial differential equations and the modelling of continuous phenomena. Topics should include systems of first-order partial differential equations, systems of conservation laws and discontinuous solutions, variational methods of solution and Green's functions, integral equations and weak solutions, distribution theory, eigenvalue problems, singular perturbation methods.

*Prerequisites:* MATH 333-3

*Precluded:* MATH 430-3

**MATH 434-3 Topics in Applied Mathematics** An overview of several problems of applied mathematics, and some of the approximation techniques used. Topics may include perturbation theory, random processes and partial differential equations, asymptotic series and asymptotic solution methods, dimensional analysis and scaling, boundary layer theory. Equations in applied mathematics may include examples from continuum mechanics, fluid dynamics, potential theory, oceanography and meteorology.

*Prerequisites:* MATH 333-3

*Precluded:* MATH 431-3

**MATH 435-3 Numerical Analysis II** A continuation of MATH 335-3, with the focus mainly on the numerical solution of ordinary and partial differential equations. Topics include initial value problems for systems of ordinary differential equations, boundary value problems for ordinary differential equations, and an introduction to the numerical solution of canonical second-order partial differential equations via finite difference methods.

*Prerequisites:* MATH 230-3, MATH 335-3

*Precluded:* MATH 331-3

**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 441-3 Nonparametric Statistics** This course discusses the methodology and application of nonparametric statistics. The topics to be covered include goodness-of-fit tests, contingency tables, empirical distribution function tests, the sign test, the Wilcoxon test, the Wilcoxon-Mann-Whitney test, the Kruskal-Wallis test, and rank correlation.

*Prerequisites:* One of the following: MATH 240-3, MATH 242, MATH 341, MATH 342, MATH 371-3, ECON 205-3, or PSYC 315-4

**MATH 450-3 Combinatorics** This course is an introduction to combinatorics. Topics include counting principles, principle of inclusion and exclusion, generating functions, graph theory and applications, combinatorial structures, combinatorial optimization and applications.

*Prerequisites:* MATH 101-3, MATH 220-3

*Recommended:* CPSC 141-3 or MATH 224-3

# Course Descriptions: Mathematics, Natural Resources

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**MATH 455-3 Graphs and Algorithms** This course is an introduction to graphs and algorithms. Topics include basic graph concepts, flows and connectivity, trees, matchings and factors, graph colouring, scheduling, planar graphs, algorithms.

*Prerequisites:* MATH 222-3 or MATH 224-3 or CPSC 142-3 or CPSC 241-3

**MATH 460-3 Mathematics Seminar** Topic will vary from year to year. Offered in a seminar format with limited enrollment. Students will complete a substantial project under the supervision of the instructor.

*Prerequisites:* fourth year standing and permission of the instructor

**MATH 480-3 Number Theory** This course is an introduction to number theory. Topics include the integers, divisibility, Euclidean algorithm, primes, unique factorization, congruences, systems of linear congruences, Euler-Fermat Theorem, multiplicative functions, quadratic residues and reciprocity, nonlinear Diophantine equations.

*Prerequisites:* MATH 220-3 or MATH 224-3

**MATH 499-3 Special Topics in Mathematics** The topic for this course will vary, depending on student interest and faculty availability. May be taken any number of times provided all topics are distinct.

*Prerequisites:* permission of the instructor

## 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 421-1 Professional Writing** This course provides a structured environment in which students learn and apply skills in professional report writing. Topics include development of a research question or problem statement, accessing and properly citing information and references, synthesis and organization of information, report structure and formatting.

*Prerequisites:* At least 90 credit hours or permission of instructor.

**NRES 422-2 Undergraduate Report** This course enables students to develop a professional report under the supervision of a faculty member. Students work independently, but are provided guidance on a one-on-one basis by the faculty member. The professional report requires definition of a problem statement or research question, and synthesis and integration of information from a multitude of sources.

*Prerequisites:* NRES 421-1 Professional Writing and permission of Faculty Supervisor and Program Chair.

*Precluded:* NRES 420-3 Undergraduate Report

**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

## Natural Resources Management

**NREM 100-3 Field Skills** This course introduces contemporary and traditional field skills in the natural resources including field navigation, outdoor survival, plant and tree identification, basic natural resource measurements, use of GPS, and air photo interpretation. Extensive fieldwork is required.

*Prerequisites:* none

*Note:* Applications for exemption from NREM 100-3 must be made within the first year of study in any program that requires NREM 100-3.

**NREM 101-3 Introduction to Natural Resources Management and Conservation** This course introduces past, present and future issues in natural resources management and conservation. Guest speakers share their professional experiences working in various fields of natural resources management. Students learn to think critically about the multidisciplinary nature of resource management and they provide solutions to complex, real-world problems.

*Prerequisites:* none

**NREM 203-3 Resource Inventories and Measurements** This course introduces multiple resource inventories, designed to provide an understanding of how natural resources are sampled and quantified. Emphasis is placed on the measurement of forest attributes, and the analysis of forest resource data. Students learn how to make graphical and numerical summaries of their datasets and to generate descriptive statistics such as measures of central tendency and dispersion. This foundational course prepares students for future courses and careers in natural resource management, by providing them with a set of basic field skills and techniques. Field trips are required.

*Prerequisites:* NREM 100-3

**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

# Course Descriptions: Natural Resource Management, Northern Studies

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## **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** This course addresses 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 are also discussed.

*Prerequisites:* upper division standing

*Precluded:* POLS 334-3

## **NREM 333-3 Field Applications in Resource Management**

This field course applies principles of integrated resource management.

*Prerequisites:* none

*Precluded:* FSTY 333-3

**NREM 400-4 Natural Resources Planning** This course focuses on the development and application of planning frameworks, government policy, and legislation from the perspective of natural resources management in British Columbia and Canada. Students are exposed to contemporary approaches for natural resources planning, the history and current application of policy and legislation in BC, and a variety of tools for engaging the public and stakeholders.

*Prerequisites:* 90 credit hours 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

**NREM 413-3 Agroforestry** This course introduces students to agroforestry concepts, strategies and practices (systems). Discussions include ecological, economic, and social circumstances under which a landowner lives and makes decisions about whether or not to practice agroforestry. Both temperate and tropical approaches to agroforestry systems are addressed in the course. Special attention is given to agroforestry research and development in British Columbia.

*Prerequisites:* Upper division standing (more than 60 credit hours)

## **Northern Studies**

**NORS 101-3 Introduction to the Circumpolar North** This course is an introduction to the physical, biological and human environments of the Arctic and Subarctic regions, and their interactions and relations to the global system. The course introduces northern environments, cultures, historical and economic development processes, political systems, and international cooperation.

*Prerequisites:* none

## **NORS 311-3 Lands and Environments of the Circumpolar**

**North 1** This course provides an in-depth understanding of the lands and environments that define the circumpolar north, and the key issues arising from the relationships of humans and the environment.

*Prerequisites:* NORS 101-3 or permission of the instructor

*Precluded:* ENVS 311-3 (UNBC) or ENPL 311-3

## **NORS 312-3 Lands and Environments of the Circumpolar**

**North 2** This course provides an in-depth understanding of the lands and environments that define the circumpolar north, its physical, biological and ecological processes.

*Prerequisites:* NORS 101-3; 60 credit hours or permission of the instructor

*Precluded:* ENSC 308-3 (UNBC) or ENVS 308-3 (UNBC)

## **NORS 321-3 Peoples and Cultures of the Circumpolar**

**World 1** This course provides an introduction to the traditional and contemporary peoples and cultures of the circumpolar north, with interdisciplinary exposure to anthropology, sociology, history, cultural studies, and literature.

*Prerequisites:* NORS 101-3; 60 credit hours; or permission of the instructor

*Precluded:* ANTH 305-3

## **NORS 322-3 Peoples and Cultures of the Circumpolar**

**World 2** This is an interdisciplinary course looking at the relationships among primary, secondary and tertiary societies in the circumpolar north, as well as cultural change, Indigenous peoples' movements and international/intercultural cooperation and communications.

*Prerequisites:* NORS 321-3; and upper division standing

*Precluded:* ANTH 404-3

## **NORS 331-3 Contemporary Issues of the Circumpolar**

**North 1** This course is an introduction to the important structures and forces affecting the sustainability of circumpolar communities, including population trends, natural resource use and economic development

*Prerequisites:* NORS 101-3; 60 credit hours; or permission of the instructor

*Precluded:* INTS 340-3

# Course Descriptions: Northern Studies, Nursing

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## **NORS 332-3 Contemporary Issues of the Circumpolar**

**North 2** This course deals with questions relating to governance and politics, social issues, education and knowledge systems, and global issues in the circumpolar north.

*Prerequisites:* NORS 101-3; 60 credit hours; or permission of the instructor

*Precluded:* POLS 315-3

**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 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 and HHSC 112-3, or BIO 111 and BIO 112 at CNC, or BIOL 131-3 and BIOL 132-3 at NWCC, or equivalent. 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, HHSC 112-3 and HHSC 110-3, or BIO 111-3 and BIO 112-3 and BIO 105-3 at CNC, or BIOL 131-3, BIOL 132-3, and BIOL 133-3 at NWCC, or equivalent. Admission for non-nursing students by permission of the instructor.

*Precluded:* NURS 301-3

**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; HHSC 111-3 and HHSC 112-3, or BIO 111-3 and BIO 112-3 at CNC, or BIOL 131-3 and BIOL 132-3 at NWCC, or equivalent. 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 101-3 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.

**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

*Precluded:* NURS 202-3

**NURS 303-3 Nutrition** This course reviews nutrient requirements across the life span and physiological connections of diet to health and disease. Therapeutic aspects of hyper alimentation and special diets in disease states are covered.

*Prerequisites:* none; admission for non-nursing students by permission of instructor

*Precluded:* HHSC 311-3

**NURS 304-3 Introduction to Nursing Knowledge** This course provides an overview of the types of knowledge or theory in the profession, and how such knowledge is developed. It encourages a critical analysis of trends in knowledge development and highlights the crucial relationship of knowledge to practice.

*Prerequisites:* NURS 220-5, or enrollment in the Post-Diploma BScN, or permission of the Program Chair

**NURS 306-3 Introduction to Epidemiology** This course applies epidemiological principles in the examination of patterns of disease and disability among populations, particularly those in northern latitudes. It introduces students to the interpretation of vital statistics, the critique of cross-sectional, case-control and cohort design, and the principles of screening.

*Prerequisites:* NURS 220-5, or enrollment in the Post-Diploma BScN, or permission of the Program Chair

*Precluded:* HHSC 350-3

**NURS 308-3 Ethics and Law in Nursing** This course 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:* NURS 220-5 or permission of the Program Chair

**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** This course 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:* NURS 220-5 or permission of the Program Chair

**NURS 313-3 Nursing Practice with the Elderly Adult** This course 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.

*Prerequisites:* NURS 220-5 or permission of the Program Chair

**NURS 315-2.5 Clinical Practicum: Mental Health** This course provides opportunity for students to integrate concepts and theory related to mental health as they care for individual and family clients in a variety of acute and community settings. Working with families and groups that support individuals dealing with specific mental health conditions is highlighted.

*Pre- or co-requisites:* NURS 312-3

*Precluded:* NURS 314-5

## Course Descriptions: Nursing

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**NURS 316-2.5 Clinical Practicum: Elderly Adult** This course provides opportunity for students to integrate concepts and theory related to healthy aging as they care for individual and family clients in acute, long term care and/or community settings. Working with families and groups that support individuals and families dealing with specific conditions of aging is highlighted.

*Pre- or co-requisites:* NURS 313-3

*Precluded:* NURS 314-5

**NURS 317-3 Maternity Nursing Theory** This course provides a theoretical foundation for the provision of nursing care to diverse and multicultural women, neonates, and families that is woman- and family-centred. Emphasis is on integration and application of evidence-based theory from nursing and related fields, CRNBC standards for nursing practice, communication, and critical thinking with the nursing process.

*Pre- or co-requisites:* NURS 220-5 or permission of the Program Chair

*Precluded:* NURS 310-3

**NURS 318-3 Pediatric Nursing Theory** This course emphasizes the nursing care of children and adolescents with acute and chronic conditions who require medical and/or surgical interventions, with particular attention to common health problems found in northern populations and First Nations groups. The course also addresses the impact of illness, hospitalization, surgery, disability, and terminal illness on the child or adolescent and on their family. Concepts related to health promotion, the effect of genetics and environment on the health of children, and the influence of social determinants of health on children and adolescents are introduced.

*Pre- or co-requisites:* NURS 220-5 or permission of the Program Chair

*Precluded:* NURS 310-3

**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 321-2.5 Maternity Nursing** The focus of this course is on integration and application of relevant theory in practice with childbearing women, infants and families using the nursing process. Emphasis is on the role of the nurse as caregiver and collaborator with women and the health care team for woman- and family-centered practice with clients of diverse and multicultural backgrounds.

*Pre- or co-requisites:* NURS 317-3

*Precluded:* NURS 311-5

**NURS 322-2.5 Pediatric Nursing Clinical** This course focuses on the most common acute and long-term health problems of the pediatric clients. The health care needs of infants, children and adolescents, with a focus on health promotion, risk reduction, and disease prevention, are emphasized. The effects of illness and hospitalization on the child and family unit are also explored. Clinical experiences occur in pediatric and community health settings and provide opportunities to apply pediatric nursing knowledge in clinical situations.

*Pre- or co-requisites:* NURS 318-3

*Precluded:* NURS 311-5

**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, NCBNP students only by permission of instructor

*Precluded:* HHSC 473-3

**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 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 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 415-3 Introduction to Community Health and Nursing**

Provides an introduction to the concept of community and nursing in the community and builds upon 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 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 BScN program

**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 BScN program

**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 BScN program

**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 BScN program

**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 BScN program

**NURS 429-3 Nursing Management Practicum** This course permits the extension of skills and knowledge in the practice of nursing leadership and management. Normally, the practicums are in hospitals or in community health care organizations and/or agencies. This course is restricted to registered nurses.

*Pre- or co-requisites:* NURS 428-3

*Major restrictions:* Restricted to the Rural Acute Care Nursing Certificate or Post-Diploma BScN students only, or by permission of instructor.

**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 431-3 Community Continuing Care Nursing Practicum**

This course enables students to apply concepts and acquire skills of community continuing care professional practice. It integrates content obtained in NURS 430-3. Students provide direct care in the home setting, apply critical thinking and competent problem-solving, and contribute to decision-making and referral. Students have the opportunity to work alongside expert practitioners in community continuing care. This course is restricted to registered nurses.

*Pre- or co-requisites:* NURS 430-3

*Major restrictions:* Restricted to the Rural Acute Care Nursing Certificate or Post-Diploma BScN students only, or by permission of instructor.

## Course Descriptions: Nursing

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**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 440-3, 5, 8 Practicum: Community Health Nursing** This course facilitates the integration and application of concepts and models related to community health nursing. It provides the opportunity for students to acquire skills needed to contribute to services and programs in the community. Emphasis is on the nurse as a partner with the community. The NCBNP requires an a 5 or 8 credit practicum, and Post- Diploma BScN students complete a 3 credit practicum.

*Pre- or co-requisites:* NURS 420-3 or equivalent. All courses in the NCBNP must be completed prior to or concurrently with NURS 440-5 or NURS 440-8

**NURS 441-3, 5, 8 Practicum: First Nations Health and Nursing** This course 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. The NCBNP requires a 5 or 8 credit practicum, and Post- Diploma BScN students complete a 3 credit practicum.

*Pre- or co-requisites:* NURS 422-3. All courses in the NCBNP must be taken prior to or concurrently with NURS 441-5 or NURS 441-8

**NURS 442-3, 5, 8 Practicum: Rural Nursing** This course 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. The NCBNP requires a 5 or 8 credit practicum, and Post-Diploma BScN students complete a 3 credit practicum.

*Pre- or co-requisites:* NURS 424-3. All courses in the NCBNP must be taken prior to or concurrently with NURS 442-5 or NURS 442-8

**NURS 443-3, 5, 8 Practicum: Acute Care Nursing** This course enables students to consolidate and extend knowledge and ability in acute care nursing practice. Clinical practice occurs with client populations requiring acute treatment and interventions. The NCBNP requires a 5 or 8 credit practicum, and Post- Diploma BScN students complete a 3 credit practicum.

*Pre- or co-requisites:* NURS 426-3 or equivalent; all courses in the NCBNP must be taken prior to or concurrently with NURS 443-5 or NURS 443-8

**NURS 444-3, 5, 8 Practicum: Mental Health Nursing** This course provides the opportunity for students to integrate and apply relevant theoretical and clinical knowledge in a variety of mental health clinical settings. It provides the opportunity to work with clients with a range of mental health problems, such as substance use and/or misuse, acute mental health problems that necessitate hospitalization, and long-term mental health problems that are addressed through community mental health services. The NCBNP requires an 8 credit practicum, and Post-Diploma BScN students complete a 3 credit practicum.

*Pre- or co-requisites:* NURS 432-3 or equivalent. All courses in the NCBNP must be taken prior to or concurrently with NURS 444-8.

**NURS 445-3, 5, 8 Practicum: Maternal and Child Nursing** This course facilitates the integration and application of perinatal and/or pediatric nursing knowledge and skills in the practice setting. Emphasis in the perinatal stream is on a woman- and family-centred approach to pregnancy, childbearing and newborn care. This is carried forward into the pediatric stream with a family-centred approach for nursing care of children and adolescents. Practice experience may be with healthy clients as well as those with complex health issues. Clinical experiences may be in acute or community settings. The NCBNP requires a 5 or 8 credit practicum, and Post-Diploma BScN students complete a 3 credit practicum.

*Pre- or co-requisites:* NURS 434-3 or equivalent. All courses in the NCBNP must be taken prior to or concurrently with NURS 445-5 or NURS 445-8.

**NURS 451-3 Health Assessment Across the Lifespan** This course provides students with the knowledge and skills to extend their ability to conduct a thorough health assessment for diverse client populations throughout the lifespan. Students conduct age appropriate comprehensive health histories and physical examinations, identify health concerns and risks, taking into account culture, ethnicity and health beliefs, and make informed clinical judgments. This course includes an extended skills-building workshop. This course is restricted to registered nurses.

*Major Restriction:* Restricted to the Rural Acute Care Nursing Certificate or Post-Diploma BScN students only, or by permission of the instructor.

**NURS 452-6 Chronic Disease Management, Palliative Care and Wound Care** This course has three components: Chronic Disease Management utilizes current, evidence-based knowledge, skills and management tools to provide effective patient-centred care for clients with chronic health challenges in rural practice. The Palliative Care section enables the learners to extend their knowledge surrounding palliative care guidelines and concludes with grief and bereavement issues. In the Wound Care component, students learn how to provide evidence-based and cost-effective wound care for people residing in rural settings.

*Pre or co-requisites:* NURS 451-3

*Precluded:* NURS 652-6

# Course Descriptions: Nursing, Outdoor Recreation and Tourism

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**NURS 453-3 Nursing Practice with Older Persons** This course focuses on health promoting, person-centred practice for nurses working with older persons in rural acute care. Assessment focuses on the physical and mental health of older persons within the context of their everyday experience and their family and/or culture. Particular attention is paid to the strengths of the individual as well as the presenting health challenges. Nurses explore strategies to prevent and/or address common health issues experienced by older persons.

*Pre or co-requisites:* NURS 451-3

*Precluded:* NURS 653-3

**NURS 454-6 Perinatal Care** This course spans the antenatal, intrapartum and post-partum continuum with particular focus on the perinatal skills and competencies required for nurses to support women and their families as they experience low risk, normal pregnancies. Students learn to recognize and take action in situations beyond the bounds of normal and make sound, informed clinical judgments in emergency situations in rural settings. This course involves an extended workshop and practicum. Prior to the practicum, students must provide proof of certification in the Neonatal Resuscitation Program (NRP) and the Fetal Health Surveillance course (FHS).

*Pre or co-requisites:* NURS 451-3

**NURS 455-6 Critical Care, Emergency and Trauma** This course provides students with the practical evidence-based information, skills and tools necessary to quickly identify patients with critical conditions and to intervene appropriately and effectively within the context and confines of rural nursing practice. The most salient aspects of adult, geriatric and pediatric emergency and critical care encountered in rural practice are examined. This includes rapid and accurate patient assessment, recognition of clinical deterioration, and emergency interventions with stabilization and safe transfer of life threatening conditions. The course includes a focused lab experience and a practicum at a larger tertiary centre.

*Pre or co-requisites:* NURS 451-3

*Precluded:* NURS 417-4

**NURS 456-3 Mental Health and Addictions** This course provides students with the basic knowledge and skills required to care for people living with common mental health and addiction issues encountered in rural nursing practice. A holistic relational nursing focus allows student to apply concepts discussed in a variety of health challenges and to intervene appropriately. Nursing approaches to clinical decision making with clients who have specific mental health problems such as psychotic, mood, anxiety and personality disorders are highlighted. Nursing practice approaches to addictions, substance use, and crisis intervention, including aggression and suicide attempts, are addressed.

*Pre or co-requisites:* NURS 451-3

*Precluded:* NURS 656-3

**NURS 457-3 Living and Working in a Rural Community** This course enables students to gain an understanding and appreciation of the unique challenges facing nurses who live and work in rural communities. Confidentiality, anonymity, cultural safety, inter-professional relationships, population health, and maintaining competence are addressed. Students gain greater knowledge and sensitivity in the provision of ethical and effective health care for First Nations populations. This course is restricted to registered nurses.

*Major Restriction:* Restricted to the Rural Acute Care Nursing Certificate or Post-Diploma BScN students only, or by permission of the instructor.

**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 BScN 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 BScN degree.

*Prerequisites:* upper division standing and permission of the instructor

## Outdoor Recreation and Tourism Management

**ORTM 100-3 Leisure in Life** This course introduces the foundations of outdoor recreation and tourism from the perspective of both the natural and social sciences. Content includes the history and philosophy of the concept of leisure, the role of leisure, recreation and tourism in students' lives and Western culture, outdoor recreation and tourism in integrated resource management, and current delivery systems.

*Precluded:* ORTM 201-3 or ORTM 203-3

**ORTM 200-3 Sustainable Outdoor Recreation and Tourism** This course focuses on resource policy and planning for recreation and tourism as part of a sustainable resource management strategy. The course examines the management of the supply side aspects of sustainable resource management from agriculture to forestry to understand how to plan and manage for recreation and tourism. A broad array of sustainable recreation and tourism policies and planning tools in different political, geographical and economic contexts is reviewed, including the relationship of recreation and tourism to integrated land use planning and design.

# Course Descriptions: Outdoor Recreation and Tourism

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**ORTM 202-3 Ecotourism and Adventure Tourism** This course provides students with an understanding of ecotourism and adventure tourism along with other related types of tourism (e.g., nature-based, alternative, green tourism). The course covers the history and origins of ecotourism and adventure tourism; definitional debates surrounding the terms; principles of ecotourism; the application of ecotourism and adventure tourism in Northern BC, Canada and the world; and planning and management aspects of ecotourism and adventure tourism.

*Precluded:* ORTM 404-3

**ORTM 204-3 Visitor Behaviour** This course examines visitor's behavioural characteristics that underlie tourism and recreation demand. Topics include: tourist psychographics and demographics (i.e. motivations, learning, preferences, attitudes, expectations, benefits, activities, interests and opinions); host and guest behaviour; the typology of tourists; decision making behaviour and use patterns in outdoor recreation and tourism in BC, Canada and the world. The course focuses on the human dimensions of recreation and tourism and includes concepts from sociology, psychology, sport and leisure studies.

**ORTM 300-3 Recreation and Tourism Impacts** This course review the identification, monitoring and mitigation of ecological, economic and socio-cultural impacts of outdoor recreation and tourism activities. Through labs, fieldwork and analysis of the literature, students examine the origin and management of impacts of resource-based recreation and tourism.

*Prerequisites:* BIOL 110-3 or 201-3, ORTM 100-3 and one 200 level ORTM course.

*Precluded:* ORTM 413-3

**ORTM 301-3 Environmental Interpretation** This course introduces the principles and practice of environmental interpretation as a component of outdoor recreation and nature-based tourism. The utility and effectiveness of various interpretive techniques are also reviewed. This course builds skills in personal and self-guided interpretive techniques suited for settings as diverse as guided tourism operations and protected areas.

*Prerequisites:* Any 200 level ORTM course.

**ORTM 305-3 Protected Area Planning and Management** This course examines historical, social, cultural, and ecological considerations in the establishment, planning and management of protected areas. The focus of the course is generally on Canadian parks, though international examples are also included. Emphasis is placed on the historic and contemporary cultural roles of protected areas, understanding park legislation and policies, natural resource management issues, and current issues and trends facing contemporary protected areas.

*Prerequisites:* Any 200 level ORTM course.

*Precluded:* ORTM 406-3

**ORTM 306-3 Indigenous Tourism and Recreation** This course focuses on issues relating to indigenous perspectives on tourism and recreation, including indigenous tourism, cultural tourism and recreation, co-management of protected areas and conservation and tourism development opportunities in indigenous territories. Examples from northern British Columbia and other parts of the world are used.

*Prerequisites:* Any 200 level ORTM course or FNST 100-3

*Precluded:* ORTM 498-3 (2005) Aboriginal and Cultural Tourism

**ORTM 333-3 Field Experience** This is an experiential course designed for ORTM students to focus on theoretical and practical skills involved in the field. Each field experience is designed to incorporate the theories, models and other concepts introduced in the classroom and bring them into greater clarity by examining them in a real world setting. The course integrates outdoor recreation and nature based tourism perspectives.

*Prerequisites:* Any 300 level ORTM course and 60 credit hours.

**ORTM 400-3 Recreation and Tourism Ecology, Management and Design** This course focuses on the theories, processes and techniques involved in ecological management and design of conservation and protected areas. Students develop skills in community-based involvement in conservation area design, GIS approaches and techniques for analysis, the concept of naturalness, capacity and suitability of the natural resource base for tourism and recreation such as commercial backcountry recreation and the evaluation of ecological values. Specific focus is given to policies, procedures and practices to protect and manage resource and tourism resources within an integrated management context.

*Prerequisites:* ORTM 300 and ORTM 305-3 or ORTM 406-3

**ORTM 403-3 International Dimensions of Outdoor Recreation and Tourism** The course discusses global dimensions and forces in outdoor recreation and tourism, particularly those in developing nations. Typical topics include the role of the United Nations in protected area planning and management, poverty and protected areas, the effects of globalization on ORTM, the impact of the concepts of sustainable development, and biodiversity in ORTM, the risk society, the changing role of local communities in conservation, sex tourism, and enforcement issues in the developing world.

*Prerequisites:* ORTM 300-3 or any 300 level INTS course.

*Precluded:* ORTM 498-3 (2005-2007) International Dimensions of ORTM

**ORTM 407-3 Recreation, Tourism and Communities** This course assesses the relationship between tourism and recreation and local communities as well as collaborative techniques for involving communities in tourism consultation processes. It covers topics such as the concepts of communities and stakeholders, hosts and guests, the relationship between community involvement and tourism, community attitudes towards tourism development and emerging approaches towards collaboration and partnerships.

*Prerequisites:* ORTM 204-3 and any 300 level ORTM courses or any 200 level ENPL course.

*Precluded:* ORTM 498-3 (2005-2007) Recreation, Tourism and Communities

# Course Descriptions: Outdoor Recreation and Tourism, Philosophy, Physics

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## **ORTM 408-3 The Psychology of Recreation and**

**Tourism** Examines individual and social factors that shape personal perception, experience and behaviours in a recreation and tourism setting.

*Prerequisites:* upper division standing

**ORTM 410-3 Research Methods and Analysis** This course examines contemporary research approaches and methods using a variety of examples from the natural and social sciences focusing on outdoor recreation and tourism examples. Topics include the research process and quantitative and qualitative approaches to research. The class incorporates an applied project or projects for which data will be collected and analyzed in a mix of lab and lecture formats.

*Prerequisites:* ORTM 300-3 and ECON 205-3 or MATH 242-3 or permission of the instructor.

## **ORTM 412-3 Issues and Trends in Outdoor Recreation and**

**Tourism** This seminar examines current issues and problems in outdoor recreation and tourism, and explores philosophical, historical and contemporary trends and issues in outdoor 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

## **ORTM 414-3 Polar Tourism and Recreation**

This course focuses on the unique aspects of tourism and recreation in the Polar Regions. Topics covered include issues of shared management, sovereignty, science vs. tourism, adventure and expeditionary tourism and recreation, the logistical challenges of operating in such remote environments, and the impacts tourism and recreation have in the Polar Regions.

*Prerequisites:* 90 credit hours

## **ORTM 433-(1-6) Field Experience II**

This senior-level experiential course provides a combination of theoretical and practical skills in the field. The course integrates outdoor recreation and nature-based tourism perspectives, and is based in various locations in BC, and worldwide. ORTM 433 may be offered in conjunction with ORTM 333; in some years enrollment may be required in both.

*Prerequisites:* Any 300 level ORTM course and 60 credit hours, and permission of instructor.

*Co-requisites:* ORTM 333-3 in some years

**ORTM 440-(2-6) Internship** May be repeated for credit (maximum six credit hours).

**ORTM 498-(1-3) Special Topics** May be repeated for credit (maximum three credits).

**ORTM 499-(1-6) Independent Study** May be repeated for credit (maximum six credit hours).

## **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

**PHIL 201-3 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

**PHIL 202-3 Comparative Religion** An introductory course exploring issues related to the religious traditions of the world, e.g., Native spirituality, Hinduism, Judaism, Buddhism, Christianity, Shintoism, Islam, Paganism and Atheism. Basic questions to be considered include the existence of God, freedom and immortality, nature of spirituality, religious experience and religious language in people's life and world view.

*Prerequisites:* none

**PHIL 205-3 Introduction to the History of Philosophy** This course is an introductory survey of western philosophy from the ancient Greeks to the early moderns, including such thinkers as Plato, Aristotle, Augustine, Aquinas, Hobbes, Descartes, Locke, Hume, Rousseau, Kant, Hegel, Mill and Nietzsche. The course provides an overview of philosophical topics including ethics, metaphysics and epistemology.

*Prerequisites:* none

## **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 or PHYS 110-4

## Course Descriptions: Physics

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**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 PHYS 115-4 and Principles of Math 12 or MATH 115-3

*Co-requisites:* MATH 100-3 or MATH 105-3

**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 PHYS 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 204-4



**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 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 230-3

*Precluded:* CHEM 303-3

**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 and PHYS 202-4 and PHYS 206-4, or permission of the instructor

**PHYS 307-3 Selected Topics in Environmental Physics** This course is 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. This course may not be used as Physics credit toward any Physics major, minor, or joint major degree.

*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 202-4

**PHYS 351-3 Optics and Photonics I** Geometrical and physical optics: mathematics of wave motion, electromagnetic theory of light, photons, laws of geometrical optics, aberrations in optical systems, optical instruments, superposition of waves, interference, polarization, diffraction, Fourier optics, holography.

*Prerequisites:* PHYS 202-4

*Precluded:* PHYS 301-3

**PHYS 390-3 Advanced Physics** Laboratory Advanced laboratory experiments in mechanics, thermodynamics, electromagnetism, solid state physics, and atomic and nuclear physics.

*Prerequisites:* PHYS 202-4, PHYS 206-4, PHYS 305-4

*Precluded:* PHYS 303-3

**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

**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

Students have completed at least one of the following courses: PHYS 390-3 for experimental research projects, or PHYS 302-3 for theoretical research projects, or PHYS 300-3 for theoretical research projects

**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 202-4, PHYS 206-4, 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 206-4, 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 200-3, PHYS 302-3

## Course Descriptions: Physics, Political Science

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**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 334-3

**PHYS 451-3 Optics and Photonics II** An examination of selected topics in modern optics, quantum optics and photonics. Topics will generally include: propagation of electromagnetic waves in waveguides, fibre optic transmission, laser oscillators, resonators and amplifiers, semiconductor photon sources and detectors, and nonlinear optical effects.

*Prerequisites:* PHYS 206-4, PHYS 310-3, PHYS 351-3

**PHYS 499-3 Advanced Topics in Physics** Topics include a selection of topics from contemporary Physics.

*Prerequisites:* permission of the instructor

*Precluded:* this course may be taken more than once for credit provided that different topics are covered

## 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 205-3 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:* 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 255-3 Introduction to Law in Canada** This course is an introduction to the Canadian legal system and the practice of law in Canada. Topics include an overview of the legislative and judicial processes as well as a survey of the major areas of law. The course also introduces students to the role of the lawyer within the legal system.

**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 270-3 Political Philosophy: Plato to Locke** A survey of political philosophy from the Greeks to the mid 17th century tracing the development of contending conceptions of political order.

*Prerequisites:* none

*Precluded:* POLS 204-3

**POLS 290-3 Research and Writing for Political Science** This course provides training in essential research and writing skills in political science. Students learn how to complete research papers in the discipline and thereby develop advanced reading and writing skills for their future careers. Students are expected to complete this course in their first or second year of study.

**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:* upper division standing

**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 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 315-3 Contemporary Issues in the Circumpolar World** This course provides students with an in-depth understanding of a variety of topics such as governance and politics, Indigenous Peoples and self-government, education, the environment, gender, health and security in the Circumpolar North.

*Prerequisites:* upper division standing or NORS 101-3

*Precluded:* NORS 332-3

**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 Ethics** This course provides an overview of the theories of moral philosophy used to understand the major ethical problems of modern society.

*Prerequisites:* upper division standing

**POLS 320-3 Canadian Politics and Policy** This course provides an introduction to the concepts, goals and methods of policy analysis, with applications to current policy issues in Canada, British Columbia and the North. Topics include public opinion surveys and the statistical analysis of policy preferences.

*Prerequisites:* ECON 205-3 or MATH 242-3

**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

**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 334-3 Society, Policy and Administration of Natural Resources** An examination of different ideological perspectives of natural resource and environmental management. The course explores how those views are expressed in the policy process and how conflicts are resolved within the policy process.

*Prerequisites:* upper division standing

*Precluded:* NREM 306-3

**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 338-3 Parties and Elections** An introduction to the concepts, methods and empirical tools used to study political parties and elections in Canada.

*Prerequisites:* upper division standing

# Course Descriptions: Political Science

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## **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 370-3 Political Philosophy: Locke to Marx** A survey of political philosophy from the 17th to the late 19th century, tracing the development of contending Anglo-American and Continental European traditions of thought.

*Prerequisites:* POLS 204-3, POLS 270-3, or ECON 202-3 or permission of the instructor

*Precluded:* POLS 300-3

**POLS 400-(3-6) Classics in Political Theory** This course provides a close analysis of a classic treatise in political theory. Texts vary yearly. The course may be repeated for a maximum of six credit hours with permission of the instructor.

*Prerequisites:* POLS 370-3, or permission of instructor

**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 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 Topics in Society and Democracy** This course is a comparative analysis of the challenges of political, economic and social transition. Topics may include religion and democracy, the market and democracy, and constitutions and democracy.

*Prerequisites:* restricted to fourth year students or 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

**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 434-3 Resource Communities in Transition** An examination of issues facing rural, remote and northern resource communities across Canada. It compares issues across Canada's provincial north as well as has a specific focus on northern British Columbia. Issues discussed include, among other things, the economic realities of globalization, the issues of identity for resource communities, and the issue of urban policy decision processes on rural, remote and northern regions.

*Prerequisites:* upper division standing

*Precluded:* POLS 401-3

**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 472-3 Contemporary Theories of Political Community**

A comparison of contemporary philosophical approaches to the basic questions of politics: Who are we and how should we live together?

*Prerequisites:* upper division standing

**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.

*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.

*Co-requisite:* PSYC 101-3

**PSYC 200-(3-6) Current Topics** 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. This course may be repeated for a maximum of 6 credit hours.

*Prerequisites:* PSYC 101-3, PSYC 102-3

**PSYC 202-3 Philosophy of Mind** This course provides an introduction to fundamental issues in the philosophy of mind including the nature of the mind, the relationship between the mind and the body, and the nature of our thoughts and perceptions. Also included is an introduction to the works of some of the leading philosophers in the field.

*Prerequisites:* PSYC 101-3, and PSYC 102-3, or permission of the instructor

**PSYC 215-3 Research Design and Methodology in Psychology I** In this course students will learn basic research design and the methods psychologists use to investigate behaviour and mental processes, with particular emphasis on empirical 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 216-3 Research Design and Methodology in Psychology II** In this course students will continue to learn basic research design and the methods psychologists use to investigate behaviour and mental processes, with particular emphasis on empirical 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 and 215-3

**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

**PSYC 260-3 Psychological Foundations** Detailed introduction to empirical and theoretical aspects of fundamental psychological processes (e.g. motivation, emotion, perception, cognition and learning).

*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 and a total of 45 credit hours successfully completed

**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 and a total of 45 credit hours successfully completed

**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 and a total of 45 credit hours successfully completed

**PSYC 307-3 Motivation and Emotion** This course addresses the properties and determinants of motivated behaviour and emotional states. Topics include eating and drinking, defence, sexual behaviour and the nature, structure and mechanisms of emotion.

*Prerequisites:* PSYC 101-3, 102-3 and a total of 45 credit hours successfully completed

**PSYC 309-3 Introduction to Health Psychology** An introduction to behavioural health science.

*Prerequisites:* PSYC 101-3, 102-3 and a total of 45 credit hours successfully completed

**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, 215-3

# Course Descriptions: Psychology

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## **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, 215-3, 216-3, 315-4

*Co-requisite:* PSYC 216-3

**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 and a total of 45 credit hours successfully completed

**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 and a total of 45 credit hours successfully completed

**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 and a total of 45 credit hours successfully completed

**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 and a total of 45 credit hours successfully completed

**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

*Precluded:* SOCW 421-3

**PSYC 401-3 Advanced Social Psychology** Advanced issues in the examination of human behaviour in its social context.

*Prerequisites:* PSYC 101-3, 102-3, 215-3, 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, 215-3, 260-3, 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, 215-3, 216-3, 260-3, 303-3

*Co-requisites:* PSYC 216-3, 403-3

**PSYC 409-3 Advanced Health Psychology** This course focuses on 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, 215-3, 309-3

*For BHSc students only:* PSYC 101-3, 102-3, 309-3, and HHSC 351-3

**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, 215-3, 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, 215-3, 260-3

**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, 215-3, 260-3, 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, 215-3, 260-3, 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, 215-3, 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, 215-3, 260-3, 330-3

**Laboratories:** Courses in the 442 - 495 series are restricted to Psychology majors only. Ordinarily, these will be restricted to students in their fourth year of studies.

**PSYC 442-3 Methods in Developmental Psychology** This course addresses experimental and observational methods used in developmental psychology.

*Prerequisites:* PSYC 101-3, 102-3, 215-3, 260-3, 315-4, 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, 215-3, 315-4, 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, 215-3, 260-3, 315-4

**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, 215-3, 260-3, 301-3, 315-4

**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, 215-3, 260-3, 315-4, 330-3

**PSYC 470-3 Psychophysiology** An introduction to the measurement of physiological responses to psychological conditions.

*Prerequisites:* PSYC 101-3, 102-3, 215-3, 260-3, 315-4 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 101-3, 102-3, 215-3, 260-3, 315-4, 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 101-3, 102-3, 215-3, 260-3, 315-4, 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 101-3, 102-3, 215-3, 260-3, 315-4, 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 101-3, 102-3, 215-3, 260-3, 315-4, 316-4

**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 101-3, 102-3, 215-3, 260-3, 315-4, 316-4

**PSYC 497-3 Senior Seminar** An integrative seminar for advanced students. Restricted to fourth year Psychology students.

*Prerequisites:* PSYC 101-3, 102-3, 215-3, 260-3, 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 101-3, 102-3, 215-3 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 101-3, 102-3, 215-3 and upper division standing Psychology major and permission of the instructor

# Course Descriptions: Social Work

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## Social Work

**SOCW 200-3 Introduction to Social Work Practice** This course 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 relevant Social Work Codes of Ethics. 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.*

**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:* enrollment 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:* enrollment 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, 301-3 and 320-3; enrollment limited to students admitted to the Social Work program

**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:* enrollment 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:* enrollment limited to students admitted to the Social Work program

**SOCW 336-3 Social Work Philosophy and Ethics** This course critically assesses the ethical issues involved in carrying out the tasks of Social Work practice, policy and research. Using the relevant Social Work Codes 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:* enrollment 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, enrollment limited to students admitted to the Social Work program

**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:* enrollment 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:* enrollment limited to students admitted to the Social Work program

**SOCW 421-3 Human Growth and Development** This course 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 affects 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:* Enrollment limited to students admitted to the Social Work program, or with permission of the Social Work Program Chair. If students have previously taken a human growth and development course, they must check with a Student Advisor to ensure that the course meets the Human Growth and Development requirement.

*Precluded:* PSYC 345-3

**SOCW 422-3 Child Welfare Practice** This course examines child maltreatment from the perspective of social work practice in the field of child welfare. The course looks at various forms of child maltreatment including methods of assessing maltreatment and the cultural and structural factors that must be considered in assessing issues such as risk. Intervention strategies are also examined along with the legal procedures and responsibilities carried by child welfare social workers.

*Prerequisites:* SOCW 301-3

*Precluded:* students not admitted to the Social Work program

**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** This course highlights topical child welfare issues, and 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 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; enrollment limited to students admitted to the Social Work program or permission of the Program Chair

# Course Descriptions: Social Work

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**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 or permission of the Program Chair.

**SOCW 435-3 Community Social Policy** This course represents a community practice project geared to integrating Social Work theory, policy, research and practice with specific community issues. Students prepare public briefs on actual areas of community concern in the light of Social Work and welfare theory, policy and practice. The brief focuses on proposed forms of action and the implementation of the strategies of change and intervention.

*Prerequisites:* upper division standing or permission of the Program Chair

**SOCW 437-3 Social Work with Groups and Communities** This course 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 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 or permission of the Program Chair

**SOCW 438-3 Comparative Welfare Analysis** This course 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 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:* upper division standing or permission of the Program Chair

**SOCW 439-3 Social Work/Law and the Justice System** This course examines 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 also examines the practice of Social Work in court settings. Specifically, it provides a basic understanding of the rights and interests of children, rules of evidence, and the role of various interveners. Court writing skills will be introduced and court visits will be arranged.

*Prerequisites:* upper division standing 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. Although the content will explore many ideas that are international and national in scope, the primary focus is 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 are viewed from both an individual level as well as a structural level of analysis. The major emphasis is on practice and policy issues relating to people who are sometimes described as "psychiatric survivors."

*Prerequisites:* upper division standing 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 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; enrollment limited to students admitted to the Social Work program or permission of the Program Chair

**SOCW 449-3 Gender and Sexuality** This course critically examines constructions of gender and sexuality that include cross-cultural and class analyses. It also focuses 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 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** 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 or permission of the Program Chair

**SOCW 455-3 First Nations Governance and Social Policy** Family values and standards of First Nations form the basis of the study on First Nations policy development and its relationship to self-governance for First Nations Communities. Topics explored include: self-determination from a First Nations perspective, its impact on Canadian Social Policy, along with the necessity to address Child and Family social needs into self-governance and planning. The course focuses on examples within British Columbia communities. Additionally, the course explores the importance of how social work practitioners need to become skilled advocates aimed at influencing policy and laws affecting First Nations and family systems.

*Prerequisites:* upper division standing or permission of the Program Chair

# Course Descriptions: Social Work, University, Women's Studies

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**SOCW 456-3 Family Caring Systems** This course develops an understanding of family caring systems from an Aboriginal/First Nations perspective. Topics explored include Aboriginal/First Nations worldviews, traditional roles of family members, the role that historical events have played in the development and current social realities of First Nations and the role that social workers can play in family wellness. Contemporary Social Work practices with Aboriginal/First Nations children and families are also analyzed and critically reflected upon, with a particular emphasis on future directions in Aboriginal/First Nations child and family welfare.

*Prerequisites:* upper division standing or permission of the Program Chair.

**SOCW 457-3 Individual and Community Wellness** This course develops an understanding of the role that wellness plays in the life of Aboriginal/First Nations individuals and communities. Topics explored include the definition of healing and wellness, the role that historical events have played in the development and current socio-economic situation of First Nations and the role that social workers can play in the future development of health and wellness of First Nations individuals and communities. As well, the issue of self-care and self-management for First Nations people and the social workers who may work in high stress situations is explored.

*Prerequisites:* upper division standing or permission of the Program Chair.

**SOCW 497-3 Reflection on Practice** This course is designed for students who are, or plan to be, working in a child welfare setting. The objective is to provide an opportunity to reflect on practice experience. The historical and cultural development of social work practice models is surveyed emphasizing contemporary models such as anti-oppressive practice, constructivism, and feminist practice. Assessment, intervention planning, advocacy, organizing, recording, confidentiality, evaluation, case management, interdisciplinary, and termination are also studied.

**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.

*Prerequisites:* upper division standing or permission of the Program Chair.

**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 103-3 Introduction to Gender Studies** This course explores the ways in which human beings think about structure gender. Topics include ideologies of masculinity and femininity, gender and psychology, gendered language, the relationship between gender and sexuality, and gender in popular culture and media.

*Prerequisites:* none

**WMST 209-3 Gender and Cultural Studies: An Introduction** This course introduces students to questions of gender, media representation, and technology. Students examine the construction of femininity and masculinity in such visual technologies as advertising, video, television, and film.

*Prerequisites:* none

**WMST 211-3 Feminist Critical Thought** This course introduces students to the philosophical, cultural, and political foundations in feminist critical thought.

*Prerequisites:* none

**WMST 220-3 Gender and Literary Theory** This course provides an introduction to critical analyses of gender and their implications for literature. Students gain an overview of some current topics in gender theory and apply these to contemporary texts.

*Prerequisite:* ENGL 200-3 (This is the same course as WMST 220-3)

**WMST 221-3 Women and Literature: A Survey** This course is a survey of works of poetry and fiction written by women in English from the Renaissance to the present. The course considers feminist theory and criticism in relation to these works.

*Prerequisite:* ENGL 210-3 (This is the same course as WMST 221-3)

# Course Descriptions: Women's Studies

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**WMST 302-3 Women and the Contemporary World** This course examines the role of women in contemporary world through a comparative examination of different societies. Topics to be addressed will include such issues as legal status, health, family, work, sexuality and violence.

*Prerequisites:* WMST 100-3

*Precluded:* WMST 212-3

**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:* none

**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 306-3 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 or permission of the instructor

*Precluded:* FNST 306-3 and WMST 310-3

**WMST 307-3 Qualitative 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.

*Prerequisites:* WMST 100-3 or permission of the instructor

*Precluded:* WMST 210-3

**WMST 309-3 Gender and Film** This course addresses the construction of gender in films that focus explicitly on the question of gender in relation to class, race, sexuality, ethnicity, colonialism and nationalism. 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 311-3 History of Feminism** This course surveys the history of those various political, social and cultural movements, e.g. suffragism, women's liberation, etc., which have combined to create the phenomenon of feminism. Attention is also devoted to the diverse theories, ideas and values that underpin contemporary feminism.

*Prerequisites:* WMST 100-3 or permission of instructor

*Precluded:* HIST 311-3

**WMST 312-3 An Introduction to the History of Gender** This course explores issues of gender in historical context using a case study approach.

*Precluded:* HIST 270-3, WMST 270-3, HIST 310-3, and HIST 312-3

**WMST 401-3 Cultural Studies: Gender, Race and Representation** This course explores the visual expression of women artists, photographers, fashion designers and film makers while also examining feminist critical responses to these visual forms of expression.

*Prerequisites:* WMST 209-3 or permission of the 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 311-3 or permission of the instructor

**WMST 410-3 Feminist Political Philosophy** This course provides 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.

*Prerequisites:* upper division standing and permission of the instructor

**WMST 411-3 Contemporary Feminist Theories** This course examines various themes and debates in recent feminist theories from an interdisciplinary perspective. Topics will vary from year to year.

*Prerequisites:* WMST 311-3 or permission of instructor

**WMST 413-(3-6) Topics in Aboriginal Women's Studies** This course explores topics relating to aboriginal women's studies in both Canadian and international contexts. Topics may vary from year to year. This course may be repeated for credit (maximum six credit hours).

*Prerequisites:* WMST 100-3 or FNST 100 and permission of instructor

**WMST 420-3 Contemporary Women's Literature** This course considers 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 instructor

*Precluded:* ENGL 410-3 (This is the same course as WMST 420-3)

**WMST 498-(3-6) Selected Topics in Women's Studies** The course examines in detail topics selected by the instructor. This course may be repeated for maximum of 6 credit hours.

*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

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# Awards and Financial Aid

The Awards and Financial Aid Office 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, UNBC awards, and donor supported scholarships.

## Contents

### I. Awards .....page 265

1. Applications
2. Definitions
  - General
  - Award Types
  - Award Categories
3. Administrative Policies

### II. Awards List .....page 268

#### 1. Early Admission Awards .....page 268

President's Scholarships  
Raven Scholarships and Bursaries  
UNBC Leadership Awards  
UNBC Scholars

#### 2. Admission Awards for New Post-secondary Students page .....page 269

BCR Group Entrance Scholarship  
Brian and Jackie Brownridge Family Bursary  
Chancellor Iona Campagnolo Scholarship  
Don Thorlakson Memorial Bursary  
Dr. Alvin and Mrs. Janey Mooney Scholarship  
FMC of Canada Limited Environmental Engineering Bursary  
Fort St. James Scholarship  
Her Majesty Queen Elizabeth II – City of Prince George Bursary  
Interim Governing Council Scholarship  
James A. Fowlie Memorial Bursary  
McGeachy Charitable Foundation – Vanderhoof Community Scholarship  
Prince George Medical Society Bursary  
Prince of Wales Scholarship  
S.M. Blair Family Foundation Scholarship  
Springboard to Success Scholarship  
UNBC Faculty and Staff Bursary  
UNBC Faculty and Staff Scholarship  
Valerie Rose Schouwenburg Memorial Bursary

#### 3. Admission Awards for Undergraduate Students New to UNBC .....page 273

Christopher Desjardins Memorial Bursary  
Curt Merritt Bursary  
Heather Sadler Jenkins Annual Scholarship  
Jim and Noreen Rustad Bursary  
McCarthy Tetrault Annual Scholarship  
Provincial Chapter of BC, IODE Entrance Bursary for Mature Students  
Rotary Club of Terrace Bursary  
TELUS Innovation Scholarship  
UNBC Merit Awards  
UNBC Transfer Awards

#### 4. In-course Undergraduate Awards .....page 275

Aldyen Hamber Women's Studies Bursary  
Alex C. Michalos Award  
Alumni of UNBC Computer Science Scholarship  
Analog Investments Ltd. Scholarship  
Anita Caswell Memorial Bursary  
Ann McQuaid Scholarship  
Anna Sorkomova Memorial Bursaries  
Anthony Karpicius Scholarship  
Arne & Lesley Carlson Scholarship  
Associated Canadian Travellers and Auxiliary Bursary  
Association of BC Forest Professionals Bursaries  
Association of BC Forest Professionals Award for Excellence  
Association of Former MLAs of British Columbia Award  
Auxiliary to the Prince George Regional Hospital Bursary  
Auxiliary to the Prince George Regional Hospital Scholarship  
BC Association of Social Workers, Northern Branch Bursary  
BC Council of Garden Clubs Bursary  
BC Northern Real Estate Board Awards  
BCR Group Incentive Scholarship  
BMO Bank of Montreal Aboriginal Scholarship  
British Columbia Association of Social Workers Prize  
British Columbia Medical Services Foundation Health Sciences Bursaries  
Canadian Citizenship Celebration Scholarships  
Canadian Federation of University Women – Prince George Scholarship  
Canadian Federation of University Women (Prince George) Beryl McMurray Award  
Canadian Institute of Forestry Bursary  
Canfor Annual First Nations Scholarship  
Canfor Annual Undergraduate Bursaries  
Canfor Annual Undergraduate Scholarships  
Canfor Legacy First Nations Scholarship  
Canfor Legacy Undergraduate Bursaries  
Canfor Legacy Undergraduate Scholarships  
Cariboo Bar Association Bursary  
Cariboo Woodlot Education Society Bursary  
CGA Academic Excellence Scholarship

CGA Continuing Education Tuition Scholarship  
Chan Foucher Lefebvre L.L.P., Chartered Accountants  
Scholarship  
Chan Sisters Foundation Award  
Chris Winther Memorial Scholarship  
CIBC Wood Gundy Endowed Scholarship  
Cliff-Marcel Bursary  
CMA Award  
CN Gold Medal Scholarship  
CN Nationwide Scholarship  
CN Regional Scholarships  
Co-op Student of the Year Awards  
Credit Union Foundation of BC - George Viereck Memorial  
Bursary  
Dave Johnson Memorial Bursary  
Deloitte and Touche Endowed Bursary  
Deloitte and Touche Scholarship  
Doug Little Scholarships  
Dr. Patrick Carson Bursary  
Dunkley Lumber Ltd. Bursary  
Dunkley Lumber Ltd. Scholarship  
Dwight Gregory Hickey Memorial Bursary  
Earl B. Finning Scholarship  
Fasken Martineau DuMoulin Annual Scholarship  
Father Thomas General Assembly #1321 Bursaries  
FMC of Canada Ltd. Scholarship  
Frank Oberle Scholarship  
Fred Garnett Memorial Scholarship  
Gary Johnson Memorial Bursary  
Geoffrey R. Weller Scholarship  
Gerald Kirschke Memorial Bursary  
Gertrude Bryant and Family Endowed Bursary  
Gordon Bryant Family Scholarship  
Gordon S. Brownridge Memorial Bursary  
Gordon Ternowetsky Memorial Bursary  
Governor General's Silver Medal  
Helen and Raymond Hatch Bursary  
Hans Langner Junior Chamber of Commerce Scholarship  
H.B. (Herb) Osen Endowed Bursary  
Ian McTaggart-Cowan Wildlife Management Scholarship  
Industrial Forestry Service Ltd. Scholarship  
Initiatives Prince George (Tourism Prince George) Bursary  
Insurance Corporation of British Columbia Bursary  
Integris Credit Union Bursary  
Integris Credit Union Scholarship  
IODE – Elsie Gerdes Bursary for Nursing  
Ivor Killy Co-op Scholarship  
Ivor Killy Scholarship  
Jack and May Fon Lee Memorial Scholarship  
Jane Layhew Nursing Bursary  
Jerry Deere Memorial Forestry Scholarship  
John and Eileen Bryan and Family Bursary  
Keith Gordon and Ted Williams Scholarship  
Kenneth Wong Memorial Scholarships  
KPMG Scholarship  
L.A. LeFebvre and Associates Scholarship  
Lakeland Mills Ltd. Bursary  
Lakeland Mills Ltd. Scholarship  
Lou and Coby Veeken Bursary  
Mark Sanstrom Bursary  
Marjorie W. Poff Scholarship  
Marumi Scholarship  
Mary Fallis Scholarship  
Mathematics and Computing Science Undergraduate Prizes  
Matthew Halpin Memorial Bursary  
Mel and Vera La Pointe Memorial Scholarship  
Mitsui Home Co. Ltd. Scholarship  
Multiple Sclerosis Scholarship, Prince George Chapter  
Nancy Anne Tarrant Memorial Endowed Bursary  
Nechako Chapter No. 40 – Order of the Eastern Star Bursary  
Northern Interior Cruising Committee Scholarship  
Northern Society of Oilfield Contractors and Service Firms  
Bursary  
Northern Undergraduate Student Society Bursaries  
Novak Bros. Contracting Ltd. Bursary  
Novak Bros. Contracting Ltd. Scholarship  
Pacific Blue Cross Bursary for Northern Medical Students  
Patrick Walsh Memorial Scholarship  
Perry Michael Shawana Bursary  
Peter Bloodoff Scholarship  
Petro-Canada Undergraduate Bursary in Environmental Study  
Phil Bodman Memorial Bursary  
Planning Institute of British Columbia Scholarship and Annual  
Book Prize  
Prince George District Teachers' Association Scholarship  
Prince George Gyro Club Bursary  
Prince George Medical Society Scholarship  
PRT Scholarship  
R. Priefer Organic Chemistry Prize  
R.T. Wilson Rural and Remote Nursing Clinical  
Practicum Bursary  
R. Williams/B. La Pointe Scholarship  
Rix Family Foundation Endowed Health Sciences Bursary  
Robin Fisher Prize in History  
Ron Brown Memorial Bursary  
Sam Ketcham Memorial Scholarship  
Sandwell Scholarship  
Seniors Festival Bursary  
Shaw Cablesystems G. P. Endowed Bursary  
Sheila Bitschy BSW Memorial Bursary  
Simons Foundation International Education Scholarship  
Society of Canadian Women in Science and Technology  
(SCWIST) Michael Smith Scholarship  
Sophie Thomas Bursary  
Spectra Energy Corp Bursary  
Spectra Energy Corp Scholarship  
Spruce Credit Union – Denie Bachand Memorial Bursary  
Suncor Energy Foundation Environmental Engineering  
Scholarship  
TD Canada Trust Bursary  
UNBC Chemistry Club Award for Excellence in Chemistry  
UNBC In-Course Bursaries  
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

# Awards and Financial Aid

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West Fraser Bursary  
West Fraser Scholarship  
Weyerhaeuser Scholarship  
William Dow Ferry Scholarship  
Wilson King LLP Scholarship

## 5. Open Awards .....page 313

BC Hydro Bursary  
Beta Sigma Phi Bursary  
Bill Reid Award  
Birks Family Foundation Annual Bursary  
Brownridge Athletic Bursary  
Brownridge & Company Insurance Services Inc. Annual Athletic Bursary  
Bruce and Pat Murdoch Bursary  
Bruno Raeber Student Award  
Can West Global Communications Scholarship  
Celena John Bursary  
Chamber of Commerce Anniversary Awards  
Chris Winther Memorial Scholarship  
Cloverdale Paint Bursary  
Computer Science Entrance Award  
Cora Donald Bursary  
CUPE Local 3799 Annual Bursary  
Daphne Anderson Memorial Prize  
David Hoy Memorial Annual Scholarship  
David Hoy Memorial Scholarships  
Don and Pat Cozzetto Athletic Women's Scholarship  
Doug Floyd Memorial Scholarships  
Dr. Mary John Bursary  
Eileen Williston Bursary  
Eleanor (Elly) Alaska-Lee Johnsen Foundation Scholarship  
Elizabeth Kellie Chapter IODE - Josephine Swann Bursary  
Golden Key Leadership Incentive  
Gorton Family Bursary  
Gorton Family Scholarship  
Husky Energy Varsity Basketball Awards  
Inder Madhok Bursary  
Industrial Forestry Service Ltd. Bursary  
Jessie Craig Bursary  
Jordy Hoover Varsity Bursary  
Knights of Columbus Council #8927 Bursary  
Louis & Irene Monasch and Family Bursary  
Mary E. Affleck Memorial Award  
Marion and Lawrence deGrace Scholarship  
Max and Violet Enemark Bursary  
Michael Strel Memorial Bursary  
Minerva Foundation Award  
Mr. & Mrs. Jagir Grewal Athletic Bursary  
Multicultural Heritage Society of Prince George Endowed Bursary  
Neil and Amelia Peterson Bursary  
Nora Jean Garland Bursary  
Northern Hoops Memorial Bursary  
Northern Trust Bursary  
Pepsi Annual Athletic Awards  
Peter Bently Athletic Scholarship

Phillips, Hager and North Investment Management Ltd. Bursary  
President's Leadership Award  
Prince George and District Dental Society Bursary  
Prince George Elks Lodge #122 and the Order of the Royal Purple #48 Bursary  
Prince George Filipino Canadian Association Scholarship  
Prince George Minor Basketball Association  
Pulp, Paper and Woodworkers of Canada, Local 9 Bursary  
R.R. Smith Education Bursary  
Rogers Sugar Bursary  
Rotary Clubs of BC Bursary  
Rotary Clubs of BC Scholarship  
Scotiabank Bursary  
Scotiabank Scholarship  
ScotiaMcLeod Matching Grant  
Sharon Revel Bursary  
Shoppers Drug Mart/Imasco Bursary  
Shoppers Drug Mart/Imasco Community Involvement Bursary  
Simons Foundation Bursary for Lone Parents  
Stafford Family Award  
Steadman Family Matching Grant  
TD Bank Financial Group Bursary  
UNBC Alumni Association Athletics Award  
UNBC Athletic Awards  
UNBC Founders Bursary  
UNBC Men's Basketball Alumni Bursary  
UNBC Students for Life Bursary for Single Parents  
Vancouver Foundation First Nations Bursary  
van Adrichem Family Bursary  
Western Chartered Financial Athletic Scholarships  
Yvonne Smith Bursary

## 6. Part-time Student Awards ..... page 333

BC Hydro Bursary  
CIBC Wood Gundy Endowed Scholarship  
Gordon Ternowetsky Memorial Bursary  
Mary Fallis Scholarship  
Northern Undergraduate Student Society Bursaries  
Political Science Student Association Annual Scholarship  
Pulp, Paper and Woodworkers of Canada, Local 9 Bursary  
Scotiabank Bursary  
TD Bank Financial Group Bursary  
UNBC Scholarships for Part-time Undergraduate Students  
Yvonne Smith Bursary

## 7. Externally Administered Awards ..... page 335

BC Hydro Scholarships  
CA Education Foundation  
Credit Union - Forest Renewal BC Bursary Program  
Fort St. John Friendship Society - UNBC Bursary  
Helen Thurwell Scholarship  
Houston Scholarship  
Rotary Club of Gibsons Jim Ling and Michael Cruise Scholarship  
Springboard to Success Scholarship



## III. Financial Aid ..... page 338

1. British Columbia Student Assistance Program (Full-time Students)
  - Eligibility
  - Application
  - Students from Other Provinces
2. Government Part-time Student Loans and Grants
  - Eligibility
  - Application
3. Assistance for Students with Permanent Disabilities
  - Canada and Provincial Student Loan Assistance
  - Canada Study Grants
  - Permanent Disability Benefit
4. Information

## 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 awards are available at the offices of high school guidance counsellors, other post-secondary institutions, and from UNBC's Financial Aid in the Office of the Registrar. An on-line application form is also available by accessing UNBC's website at: [www.unbc.ca/finaid](http://www.unbc.ca/finaid).

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. Students are advised to read information listed under Application Instructions on the UNBC application awards form.

Unless otherwise stated, the deadline for applying for awards is March 1, 2008.

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 30.

#### 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

A person who resides in a northern community located within the regions established under the College and Institute Act for the College of New Caledonia, the Northern Lights College and the Northwest Community College.

A resident of northern British Columbia is defined as a person whose principal residence for twelve consecutive months immediately prior to admission to UNBC is within the defined region.

#### Health Sciences

Health sciences: For those awards where "health sciences" is stated in the criteria, the following programs are considered eligible:

- Bachelor of Health Sciences
- Bachelor of Science in Nursing
- Bachelor of Science, Psychology
- Bachelor of Science, Social Work
- Bachelor of Science, Biochemistry and Molecular Biology

# Awards and Financial Aid

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## Award Types

### Award

An award may be a fellowship, scholarship, bursary, prize or other monetary or nonmonetary 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 nonmonetary, 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 Office of 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 enrollment 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 UNBC's Awards and Financial Aid (Office of the Registrar). 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 UNBC Awards, Financial Aid (Office of the Registrar). 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 (May 1 – April 30). 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:

<b>Example Student</b>	<b>A</b>	<b>B</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.

Co-op students: for the purposes of awards eligibility, students enrolled in a co-op term will be considered to have met the minimum full-time credit equivalency for that term. Co-op applicants will be evaluated based on their cumulative GPA.

### **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 Scholarships and Bursaries 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 September 10 and the second on or about January 10.

Non-renewable awards may be deferred for a period of one semester only. Renewable awards may be deferred for up to one academic year at the discretion of the Awards, Financial Aid (Office of the Registrar). All requests for deferrals must be made in writing to UNBC Awards, Financial Aid (Office of the Registrar), and must outline the reasons the deferral is being sought.

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 once the add/drop deadline is past.

### **Appeal of Eligibility Status for Renewable Awards**

Students who hold renewable awards will be notified in writing of their renewal status at the end of the Winter semester each year, when final grades have been submitted.

Occasionally, circumstances may arise that are beyond a student's control that affect his/her academic work. Students who believe their renewal status is in jeopardy due to such circumstances must contact UNBC Awards, Financial Aid (Office of the Registrar) before the start of the final examination period for the semester in which the difficulty occurs.

Students may be required to submit the following information in support of their appeal:

- A letter from the student outlining the extenuating circumstances affecting his/her eligibility; and
- Supporting documentation from a professional third party (e.g. physician, counsellor, clergyman or instructor) who was aware of the student's situation during the semester.

All requests for a change in scholarship terms and conditions will be forwarded to the Senate Committee on Scholarships and Bursaries for consideration on a case-by-case basis. UNBC Awards, Financial Aid (Office of the Registrar) will notify the student in writing of the committee's decision. All decisions made by the committee are final and not subject to appeal.

### **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 or corrections that are required, including cancellation of particular awards or changes to criteria or award values.

### **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** \$9,000 renewable at \$5,300 per annum for up to three years.

**Number** Three

**Eligibility** Available to full-time students commencing a course of studies at UNBC for the first time.

**Criteria** Academic excellence, with consideration given to community involvement and leadership.

**Application Instructions** Applicants may wish to support their application by including two letters of reference attesting to their community involvement/leadership activities.

**Note** 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** \$6,600

**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** \$2,000

**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.

**Application Instructions** Complete the financial need section on the award application form.

**Established** 1994

#### UNBC Leadership Awards

As one of MacLean's magazine's 'Leaders of Tomorrow', UNBC is committed to rewarding those students who have made an effort to balance their academics with leadership activities-both within their school and their community.

**Value** \$2,000

**Number** Variable

**Eligibility** Available to full-time students entering UNBC directly from high school.

**Criteria** Academic proficiency and demonstrated leadership/involvement.

**Application Instructions** Complete the UNBC Leadership Awards application form and attach the required documentation.

**Note** The deadline to apply for these awards is December 15 each year.

**Established** 2003

#### UNBC Scholars

**Value** Tuition fees, renewable to a maximum of 120 credit hours

**Number** Fifty-five

**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, with minimum of 12 credit hours in both Fall and Winter semester. Students must complete a minimum of 30 credit hours each academic year (September-August) in order to retain this scholarship.

**Criteria** Academic excellence.

**Application Instructions** 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%).

**Note** These scholarships are renewable annually subject to the recipients registering in a full course load (30 credit hours) each academic year at UNBC and attaining at least an annual GPA of 3.00 ("B" average) in the academic year.

**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.

**Application Instructions** Complete the financial need section of the awards application form.

**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.

**Application Instructions** Attach a letter outlining your community service to your application. Include two letters of recommendation/reference.

**Endowed** 1992

### Don Thorlakson Memorial Award

This annual award was established by School District No. 57 in 1994 to honour the memory of Don Thorlakson, a well-respected teacher of students in Special Education and English as a Second Language programs. This award is intended to provide financial assistance to a graduating student who has been in an English as a Second Language program. These are endowed funds held by the Prince George Community Foundation.

**Donor:** School District No. 57 and UNBC

**Value:** \$2,000 (\$1,000 cash and a \$1,000 tuition waiver)

**Number:** One

**Eligibility** Available to a graduating student who has been in an English as a Second Language program.

**Criteria** Demonstrated care and concern for others in the home, school or community and financial need.

**Application Instructions** Fill out all sections of the School District No. 57 Awards Committee application form and attach a letter of reference outlining care and concern for others.

**Conditions** A letter of reference must accompany application.

**Effective Date** Established 2008

**Recipient Selection** School District No. 57 Awards Committee

## Awards and Financial Aid

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### Dr. Alvin and Mrs. Janey 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.

**Application Instructions** Attach a letter outlining your community service to your application form.

**Endowed** 1994

### FMC of Canada Limited Environmental Engineering Bursary

As a worldwide company with stake holdings 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** \$2,000

**Number** One

**Eligibility** Available to a full-time student who is entering his/her first year of the Environmental Engineering program. Preference will be given to a resident of northern British Columbia.

**Criteria** Academic excellence

**Established** 2003

### 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** \$1000

**Number** One

**Eligibility** Candidates must meet UNBC admission, enrollment and full-time attendance requirements. The student recipient shall be a resident of Canada and a graduate of Fort St. James Senior Secondary School, having been a student of Fort St. James Senior Secondary for one complete year.

**Criteria** Academic excellence.

**Note** The Scholarship is to be directed to a student entering the first year of an undergraduate program directly from Fort St. James Secondary. If these criteria cannot be met, the Scholarship may be directed to a student entering an undergraduate program from a Community College.

**Endowed** 1993

### 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.

**Application Instructions** 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.

**Application Instructions** Letters of specific recommendation must accompany applications.

**Endowed** 1992

## James A. Fowlie Memorial Bursary

James (Jim) A. Fowlie was easily one of Prince George's most respected and recognized individuals. He was a founding member of the Multiple Sclerosis Society of Canada – Prince George Chapter where he supported the goal to be a leader in finding a cure for MS and enabling local residents affected by MS in enhancing their quality of life. Being afflicted himself with MS for 40 years did not slow Mr. Fowlie who lived life to the fullest. He was regularly seen motoring down the streets of Prince George in his electric wheelchair with a clever saying pinned to his back.

**Donor** Multiple Sclerosis Society, Prince George Chapter

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student entering UNBC directly from high school. Preference will be given to an applicant indicating a parent with Multiple Sclerosis. In the event that there are no candidates with an MS association, the candidate will be one who is dealing with a disability or requires learning aids.

**Preference** will be given to a resident of northern British Columbia.

**Criteria** Demonstrated financial need.

**Application Instructions** include a letter outlining how you meet the eligibility stated above. Complete the financial need section of the awards application form.

**Established** 2002

## McGeachy Charitable Foundation – Vanderhoof Community Scholarship

The McGeachy Charitable Foundation was incorporated in 1974, and received one quarter of the estate of Mr. W. A. McGeachy, of Chatham, Ontario. In 1993 and 1994, the capital was more than doubled by donations from Mr. & Mrs. D. D. C. McGeachy of London, Ontario.

This award recognizes the McGeachy family's ties to Vanderhoof and the Nechako Valley. Mr. and Mr. E. C. McGeachy were among the earliest pioneers, coming in ahead of the railway. Their daughter Jean (French) and their son Donald grew up in Vanderhoof, and both graduated from the Vanderhoof High School. This award honours the McGeachy's influence in the northern region and fits with the Foundation's history of supporting educational excellence.

**Donor** The McGeachy Charitable Foundation

**Value** \$1,000

**Number** One

**Eligibility** Available to graduates of Nechako Valley Secondary School in Vanderhoof, BC. enrolled as full-time students at UNBC.

**Criteria** Academic excellence

**Note** The school will nominate the recipient.

**Endowed** 2000

## 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.

**Application Instructions** Complete the financial need section of the awards application form. Attach a letter outlining your career goals.

**Endowed** 1993

## Awards and Financial Aid

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### Prince of Wales Scholarship

A perpetual scholarship was established in 1986 to commemorate the visit to Prince George of their Royal Highnesses, the Prince and Princess of Wales. These are endowed funds held by the Prince George Community Foundation.

**Donor** School District No. 57 and UNBC

**Value** \$5,000 (\$2,500 and a \$2,500 tuition waiver)

**Number** One

**Eligibility** Open to all students graduating from School District No. 57 and commencing full time studies at UNBC.

**Criteria:** Demonstrate a high record of academic achievement in both Grade 11 and Grade 12. Demonstrate outstanding citizenship as evidenced by their involvement in school and community activities. Demonstrate involvement / achievement in Art, Dance, Drama or Music in school or community.

**Application Instructions** Fill out all sections of the School District No. 57 Awards Committee application form and attach a minimum of one and not more than three testimonial letters, record of marks or other support material substantiating each of the three areas of achievement:

1. citizenship in school and community
2. involvement and achievement in Art, Dance, Drama, Music or Speech Arts
3. academic achievement

**Established** 2008

### S.M. Blair Family Foundation Scholarship

**Donor** S.M. Blair Family Foundation

**Value** \$2,000

**Number** One

**Eligibility** The candidate must meet UNBC admission and full-time attendance requirements. The candidate will have demonstrated achievement at a high school science fair in northern BC.

**Criteria** Academic excellence

**Application Instructions** Applicants must fill out a nomination form that is available at northern BC secondary school counselling 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 nomination. Recommendations will attest to the fact that the student has achieved high ranking in northern BC secondary school science fairs.

**Note:** This scholarship is tenable upon full-time enrollment at UNBC.

**Established** 2000

### Springboard to Success Scholarship

This scholarship recognizes well-rounded deserving graduating high school students who have demonstrated strong school service and leadership, maintained a GPA of 6.0 or greater in high school, as well as participated in athletics and/or clubs. The Springboard to Success Scholarship is named each year in recognition of an individual or group that contributed to public education within the boundaries of School District No. 57 (Prince George).

**Donors** School District No. 57 and UNBC

**Value** \$2,000 (\$1,000 and a \$1,000 tuition waver)

**Number** Variable

**Eligibility** Available to a student attending any school participating in the School District No. 57 Awards Program

**Criteria** Demonstrated high school achievement of 6.0 GPA or greater. Demonstrated strong school service and leadership. Demonstrated involvement in school sports and/or clubs.

**Conditions** Recipient must enroll in full time studies at UNBC

**Application Instructions** Fill out all sections of the School District No. 57 Awards Committee application form and attach a letter of reference outlining your school participation.

**Recipient Selection:** School District No. 57 Awards Committee

**Established** 2006

### 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.

**Application Instructions** Complete the financial need section of the awards application form.

**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** William & Ottilia Schouwenburg

**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 is enrolled in the Bachelor of Education program.

**Criteria** Demonstrated financial need and academic excellence.

**Application Instructions** Attach a letter outlining your career goals to your application form. Complete the financial need section of the application form.

**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.

### Christopher Desjardins Memorial Bursary

Christopher Desjardins (January 23, 1983 – August 26, 2000) lived in Prince George as a child and has many close friends residing here. Chris was a vibrant 17 year-old who touched many lives in his short life. Chris highly valued the closeness of family and friends. With his zest for life, Chris was determined to achieve success over all obstacles and continue on with his education. He was a grade 12 student in Abbotsford, BC. It is the wish of Loreen and Larry Obst (Chris' aunt and uncle) to establish this bursary in Chris' memory to enable other young students to have the opportunity to achieve their dreams and goals.

**Donor** Family and Friends of Christopher Desjardins

**Value** \$1,000

**Number** One

**Eligibility** Available to a student entering into a full-time undergraduate program at UNBC. The recipient will be a resident of northern BC and have stated career goals toward a career path.

**Criteria** Academic proficiency and demonstrated financial need.

**Application Instructions** Complete the financial need section of the application form and attach a brief outline of your career goals.

**Established** 2000

## 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.

**Application Instructions** Fill out the financial need section of the awards application form. Attach a letter from a qualified professional that confirms you meet the eligibility requirements for this award.

**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.

**Application Instructions** Complete the financial need section of the awards application form.

**Established** 1999

## Awards and Financial Aid

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### 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 planermill 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.

**Application Instructions** Complete the financial need section of the application form. Attach a letter outlining your community 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.

**Donor** McCarthy Tetrault Foundation

**Value** \$1,000

**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 in the Awards and Financial Aid section of the UNBC Academic Calendar. 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

### Rotary Club of Terrace Bursary

This fund was established by the members of the Rotary Club of Terrace to support graduates of Caledonia Senior Secondary School in their undergraduate studies at the University of Northern British Columbia to attain their full potential as productive members of society by the provision of an annual bursary.

**Donor** The Rotary Club of Terrace

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student who is a graduate of Caledonia Senior Secondary School, Terrace, BC. Preference will be given to a student who has demonstrated community service involvement in youth/elderly support. Preference will be given to a student enrolled in a Bachelor of Science program, working toward a degree in the fields of Forestry, Environmental Studies, Social Studies or Natural Resources Management.

**Criteria** Academic proficiency and financial need.

**Application Instructions** Complete the financial need section of the application form. Attach a letter outlining your community involvement with youth/elderly.

**Note** Students may not normally receive this bursary more than once. The recipient will be required to attend one Rotary Club of Terrace meeting to make a presentation of his/her studies, or in the event that the student no longer resides in Terrace, shall provide a report on his/her course of study.

## TELUS Innovation Scholarships

TELUS has a vision of becoming Canada's premier corporate citizen. Through this endowed scholarship, TELUS hopes to shape and influence access to learning for residents of Northern British Columbia.

**Donor** TELUS

**Value** \$3,000

**Number** One

**Eligibility** Available to full-time students who are residents of northern British Columbia. One scholarship will be awarded to a student from the South Central Region, one to a student from the North East Region, and one to a student from the North West Region.

**Criteria** Academic excellence

**Endowed** 2000

## UNBC Merit Awards

**Donor** The University of Northern British Columbia

**Value** \$1,100

**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

## UNBC Transfer Awards

**Donor** The University of Northern British Columbia

**Value** \$750

**Number** Varies

**Eligibility** Available to full-time students who are transferring to UNBC from another post-secondary institution for the first time. Recipients must have a minimum admission GPA of 3.47 and at least 30 transfer credit hours to be considered

**Criteria** Academic excellence

**Note** No application is required. Students who are enrolled in collaborative programs with UNBC and other post-secondary institutions are not eligible to receive this award

**Established** 2006

## 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.

**Application Instructions** Complete the financial need section of the application form. Attach a letter outlining your community involvement.

**Note** The Women's Studies Program will review the applications and 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.

**Application Instructions** Attach three letters of recommendation attesting to your community involvement to your application form.

**Note** Recipients of this award may receive it more than once.

**Established** 1998

## Awards and Financial Aid

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### Alumni of UNBC Computer Science Scholarship

Graduates from the first three classes from the UNBC Computer Science program wanted to give back to the program and the University by supporting the education of a promising, well-rounded computer science student.

**Donors:** Darren Ditto, Paul Stokes, Ryan Schroeder and Thomas Armstrong

**Value:** \$1,000

**Number:** One

**Eligibility:** Available to a full time undergraduate student with a declared major in Computer Science who has completed at least 60 credit hours. Preference will be given to applicants who are working during their studies.

**Criteria:** Academic Proficiency and demonstrated involvement in computer related activities outside of their postsecondary studies, such as: industry or research experience, and entrepreneurial initiative.

**Note:** Successful applicants may apply and receive this award more than once.

**Application Instructions:** Submit a letter outlining your extracurricular involvement in Computer Science related activities (as defined above).

**Established** 2006

### 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 recipient will have completed less than 60 credit hours towards qualifications in Forestry.

**Criteria** Academic proficiency.

**Note** No student may receive this award twice. The College will review applications and nominate the recipient.

**Endowed** 1993

### Anita Caswell Memorial Bursary

Anita Caswell was a twenty-five year employee at the main office of the Central Interior Logging Association (CILA). She embraced the values of the organization and was committed to the people it served. As office manager, she kept the operations running smoothly, providing service and a 'family' environment to its membership. CILA represents almost 400 independent logging contractors in northern BC. Since 1966, the Association has worked to improve the business climate for loggers and truckers by making representation on issues of forest and log-hauling legislation at Federal, Provincial and Regional levels.

**Donor** Central Interior Logging Association

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student with a declared major in Forestry who has completed a minimum of 60 credit hours. The recipient will be a resident of northern British Columbia. Preference will be given to students within the service area of CILA which includes: the Yukon border in the north to 100 Mile House in the south, Hazelton in the west to the Alberta border in the east.

**Criteria** Academic proficiency and demonstrated financial need.

**Application Instructions** Complete the financial need and voluntary information sections of the undergraduate awards application form.

**Established** 2002

### 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.

**Application Instructions** Attach a letter attesting to your community service, involvement and leadership to your application form.

**Established** 1998

## Anna Sorkomova Memorial Bursaries

These awards are in memory of Anna Sorkomova, a graduate exchange student at UNBC from Yakutsk in Siberia. The donor has established these awards to help alleviate some of the financial hardships that these students encounter in coming to Canada to study and participate in full-time studies and/or exchange programs. The donor is committed to personally assisting these students to overcome some of the cultural challenges they experience and to help us learn from their cultures.

**Donor** Charles A. Buchan, BComm., CA, Partner with Deloitte & Touche LLP, Chartered Accountants

**Value** \$1,500

**Number** Two

**Eligibility** Available to full-time exchange students from Yakutsk State University or students from other parts of the Eastern World.

**Criteria** Demonstrated financial need.

**Note** Selection of the recipients will be made on the recommendation of the International Operations Director.

**Established** 2000

## 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 College 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** \$1,500

**Number** One

**Eligibility** Available to a full-time student who has completed a minimum of 60 credit hours towards a degree. The recipient will have a declared major in Anthropology, focusing his/her studies on the archaeology of northern British Columbia.

**Criteria** Academic proficiency

**Application Instructions** Attach a letter outlining your study plans to your application form.

**Note** The Anthropology Program will review applications and nominate a recipient.

**Endowed** 1998

## Associated Canadian Travellers and Auxiliary Bursary

The Associated Canadian Travellers – Prince George Club was established in 1956 as a fraternal organization consisting of commercial, travelling salespeople and an Auxiliary Club of members' spouses. In 1993 the Associated Canadian Travellers merged with the United Commercial Travelers of America to become A.C.T./UCT Council #1007. A.C.T./UCT Council #1007 ceased operations September 2002.

In their 46 years of service to the Prince George community, the A.C.T./UCT members provided financial support and volunteer help to hundreds of charitable causes. This bursary was established as a legacy to all their dedicated members to promote community involvement, and to provide financial assistance to a student pursuing a career in sales and marketing.

**Donor** Associated Canadian Travellers and Auxiliary

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student, preferably with a declared major in Commerce – Sales and/or Marketing. The recipient will be a Canadian citizen and a resident of northern BC for an uninterrupted period of 5 years prior to enrollment.

**Criteria** Academic proficiency, demonstrated financial need, and community service.

**Application Instructions** Complete the financial need and residency sections of the undergraduate awards application form. Attach three letters of reference from individuals who can confirm your record of community service.

**Established** 2003

## Awards and Financial Aid

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### Association of BC Forest Professionals Award for Excellence

Forestrust is the charitable arm of the BC Forest Professionals 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** \$2,000

**Number** One

**Eligibility** Available to a full-time student continuing studies in a program offered by the Natural Resource Management—Forestry major who has completed a minimum of 30 credit hours and who is eligible to apply to become a BC Registered Professional Forester.

**Criteria** Academic proficiency and excellence in extra-curricular activities

**Conditions** Tenable upon confirmation of full-time enrollment in the Natural Resource Management—Forestry major at UNBC in the semester immediately following the granting of the award.

**Application Instructions** Fill out all sections of the Awards Application form and attach your resumé.

**Recipient selection** Nominations for this award will be evenly split between recommendations by the Natural Resources Management—Forestry and joint recommendation by the Natural Resources Management—Forestry.

**Endowed** 1993

### Association of BC Forest Professionals Bursaries

These bursaries are made possible by the participants and the sponsors of the 47th Annual General Meeting of the ABCPF, held in Prince George, BC February 1995 and the 52nd Annual General Meeting held in Prince George, BC March 2000.

**Donor** The Association of BC Forest Professionals

**Value** \$1,000

**Number** Two

**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.

**Application Instructions** Complete the financial need section on your application form.

**Note** The College will review the applications and nominate the recipient.

**Endowed** 1996

### Association of Former MLAs of British Columbia Award

The Association of Former MLA's of British Columbia through its Ned deBeck Foundation held annual university student assistance fund-raising dinners. All funds raised at these events were forwarded to the four BC universities. The proceeds are directed to students who have shown an indication to enter public service and who may require some financial assistance to enable them to continue their studies.

**Donor** Ned deBeck Foundation

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student, with satisfactory academic standing who is enrolled in Political Science, and who demonstrates an interest in future public service.

**Application Instructions** Letter indicating the student's desire to enter into politics through public service or legislative assembly.

**Endowed** 1995

### Auxiliary to the Prince George Regional Hospital Bursary

The Auxiliary is a volunteer group at the Prince George Regional Hospital committed to providing financial assistance to the hospital. Approximately 30,000 volunteer hours are performed each year in twenty-three service areas. The two main sources of funds are derived from gift and thrift shops.

**Donor** The Auxiliary to the Prince George Regional Hospital

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student with a declared major in Nursing who has completed a minimum of 60 credit hours. The recipient will be a resident of northern British Columbia.

**Criteria** Academic proficiency and demonstrated financial need.

**Application Instructions** Complete the financial need and residency section of the undergraduate awards application form.

**Established** 2002

## Auxiliary to the Prince George Regional Hospital Scholarship

The Auxiliary is a volunteer group at the Prince George Regional Hospital committed to providing financial assistance to the hospital. Approximately 30,000 volunteer hours are performed each year in twenty-three service areas. The two main sources of funds are derived from gift and thrift shops.

**Donor** The Auxiliary to the Prince George Regional Hospital

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student with a declared major in Nursing who has completed a minimum of 60 credit hours. The recipient will be a resident of northern British Columbia.

**Criteria** Academic proficiency.

**Application Instructions** Complete the residency section of the undergraduate awards application form.

**Established** 2002

## 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.

**Application Instructions** Complete the financial need section of the application form.

**Note** The recipients will be invited to address a meeting of the BC Association of Social Workers.

**Endowed** 1994

## BC Council of Garden Clubs Bursary

This bursary has been established by the BC Council of Garden Clubs to assist students furthering their education in the fields of horticulture/agriculture plant sciences. The BC Council of Garden Clubs is an umbrella organization for more than 100 garden clubs in the province.

**Donor** BC Council of Garden Clubs

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student enrolled in the second year of a horticulture/plant science/agriculture/biology/forestry program. The recipient will be a Canadian Citizen who shows promise in the horticulture field.

**Criteria** Academic proficiency and demonstrated financial need.

**Application Instructions** Submit a brief statement outlining your career plans. Complete the financial need section of the awards application form.

**Established** 2002

## BC Medical Services Foundation Health Sciences Bursaries

The British Columbia Medical Services Foundation Scholarship Fund was established by John H.V. Gilbert, under the stewardship of the British Columbia Medical Services Foundation (BCMSF) administered by the Vancouver Foundation. The BCMSF actively promotes health education, explores solutions to health care issues and advances study in the health sciences. The BCMSF is pleased to recognize Health Science students pursuing undergraduate level studies in Health Sciences at UNBC with this annual bursary. This annual bursary fits in with the Foundation's support of health-related research in both academic and community setting in British Columbia and recognizes the financial need aggregated by students who have the potential to make a valuable contribution to health services and research in BC.

**Donor** BC Medical Services Foundation (administered by the Vancouver 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.

**Application Instructions** Complete the financial need section of the awards application form.

**Note:** Students may apply for these bursaries more than once.

**Established** 1996

# Awards and Financial Aid

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## 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 and to promote the highest standard of professionalism. BCNREB has been providing financial assistance to UNBC students since 1995.

**Donor** BC Northern Real Estate Board

**Value** \$1000

**Number** Four

**Eligibility** Available to full-time students who have completed at least 30 credit hours towards an undergraduate degree at UNBC, who are relatives of members, or members of the BC Northern Real Estate Board. 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 with Dawson Creek, Chetwynd, and Tumbler Ridge excluded.

**Criteria** Satisfactory academic standing.

**Application Instructions** If you are a relative of a board member, attach a statement attesting to this fact to your awards application form.

**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. If there are no candidates meeting the criteria of a relative of a member, or a member of the BC Northern Real Estate Board, then the award will be given to another eligible student residing within the region outlined above.

**Established** 1995

## 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.

**Application Instructions** Submit a brief letter stating your career plans that reasonably demonstrates substantial interest in transportation, telecommunications or business management.

**Note** The Faculty will review the applications and nominate the recipient.

**Endowed** 1994

## BMO Bank of Montreal Aboriginal Scholarship

**Donor** BMO Bank of Montreal

**Value** \$1,500

**Number** Three

**Eligibility** Available to a student who is a resident of northern British Columbia as defined by the UNBC Act. Priority will be given to Candidates who have completed 60 credit hours towards a Bachelor of Commerce degree and have attended UNBC during the first two years of study or have transferred to the University from a regional community college in northern British Columbia. Candidates who have completed less than 60 credit hours will be considered if there are no eligible applicants. Preference will be given to First Nations students

**Criteria** Academic proficiency. Final selection will be made on the basis of superior academic achievement.

**Endowed** 1996

## 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 currently enrolled as a third year student in the Social Work (BSW) program who is a resident with continuous dwelling within the UNBC region for four years immediately prior to admission to the Social Work program at UNBC. The candidate must be a member of BCASW in good standing. The prize will be awarded for study in the fourth year of the Social Work program.

**Criteria** Financial need and academic proficiency.

**Application Instructions** Complete the financial need section of the application form. Attach proof of membership in BCASW.

**Note** The Chair of the Social Work program will review the applications and nominate a recipient.

**Established** 1996



### Canadian Citizenship Celebration Scholarships

In recognition that at a time that many countries, including the United States, refused to admit those fleeing Hitler's Austria, Canada welcomed the Donor's parents and their family, and permitted them thereafter to acquire citizenship and to live and to prosper in freedom, the Donor intends to provide students born outside of Canada and the United States of America with scholarship support to pursue their university education.

**Donor** George C. Stevens

**Value** \$6,000

**Number** Two in 2007-2008, Three in 2008-2009, Four in 2009-2010 and each year thereafter

**Eligibility** Available to a full undergraduate or graduate student.

**Criteria** Academic excellence.

**Conditions** Scholarship applicants must have been born outside Canada and the United States of America. Neither the applicants' parent, at or prior to the date of the applicant's birth, shall be or shall have been a citizen of either Canada or the United States of America. The applicant shall have lawfully immigrated to Canada, and at the date of application shall have been a permanent resident of Canada (within the meaning of the Immigration Act) for a period of not less than three years. The applicant shall affirm that his or her intention, upon completion of studies (including if applicable, programs of studies abroad), to remain in Canada, to acquire Canadian citizenship (if he or she is not then a citizen) and to attempt to contribute to this country's prosperity. The University shall, over a reasonable period of time, attempt to achieve diversity, on the basis of the national origin of the applicants, in its selection of scholarship recipients.

**Application Instructions** Attach official documentation denoting birthplace and evidence of permanent resident status

**Established** 2004

**Effective** Date 2006

### 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.

**Donor** Canadian Federation of University Women—Prince George (CFUW)

**Value** \$1,500

**Number** One

**Eligibility** Available to a full-time undergraduate student who has completed 30 credit hours. Awarded to a student who will be 21 years of age or older at the beginning of the Fall Semester that the award is to be received. Preference will be given to a female candidate.

**Criteria** Academic proficiency.

**Endowed** 1994

### Canadian Federation of University Women (Prince George) Beryl McMurray Award

Beryl chose to make Prince George her home after emigrating from New Zealand as a young teacher. She completed her formal education as a mature student but was a life long learner interested in travel, reading, sports, gardening, her home, church and community. Beryl was a strong supporter of education, particularly for women as evidenced by her commitment to and involvement in the Canadian Federation of University Women (CFUW). She was very involved in the local club, holding all executive positions over the years. Beryl also sat on the board of the national organization and travelled to many international conferences. She is remembered as a dedicated educator, an avid traveller and a loyal friend.

**Donor:** Beryl McMurray (Estate) and the Canadian Federation of University Women - Prince George (CFUW)

**Value:** \$1500

**Number:** one

**Eligibility:** Available to a full time undergraduate student enrolled in the Bachelor of Education programme. First preference will be given to a female student. Second preference will be given to a resident of northern British Columbia.

**Note:** Should there be no qualified candidate enrolled in the Bachelor of Education programme who applies for the award, the award may be made to a student enrolled in the Bachelor of Social Work, Bachelor of Science in Nursing or Northern Medical Program.

**Criteria:** Academic proficiency and demonstrated financial need.

**Endowed** 2007

## Awards and Financial Aid

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### Canadian Institute of Forestry Bursary

This bursary was established in celebration of the founding of 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** \$1,000

**Number** One

**Eligibility** Available to a full-time student who has completed between 60 and 90 credit hours in a program offered by the College of Science and Management and is pursuing a course of study in Natural Resources Management or Biology.

**Criteria** Demonstrated interest in integrated wildlife/forest management, leadership skills, and academic proficiency.

**Application Instructions** Attach a letter outlining your interest in wildlife/forest management and leadership skills.

**Note** The College will review the applications and nominate candidates.

**Endowed** 1993

### Canfor Annual First Nations Scholarship

Canfor Corporation is a leading integrated forest products company with strong roots in northern British Columbia. As the largest BC producer of softwood lumber and through its 50% ownership of CPLP Income Fund one of the largest market pulp producers in Canada, Canfor is committed to fostering growth and strengthening the communities that we call "home". The Canfor Annual Awards commemorate Canfor's support of the University of Northern British Columbia and its students. They are awarded to students in recognition of academic excellence. It is Canfor's hope that these students will put their talents to work in communities throughout northern British Columbia.

**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 Science. Preference will be given to First Nations students.

**Criteria** Academic excellence.

**Note** Recipient of this award is ineligible for receipt of the Canfor Legacy Endowed Scholarships and Bursaries and vice versa.

**Established** 2000

### Canfor Annual Undergraduate Bursaries

Canfor Corporation is a leading integrated forest products company with strong roots in northern British Columbia. As the largest BC producer of softwood lumber and through its 50% ownership of CPLP Income Fund one of the largest market pulp producers in Canada, Canfor is committed to fostering growth and strengthening the communities that we call "home". The Canfor Annual Awards commemorate Canfor's support of the University of Northern British Columbia and its students. They are awarded to students in recognition of academic excellence. It is Canfor's hope that these students will put their talents to work in communities throughout northern British Columbia.

**Donor** Canfor Corporation

**Value** \$1,500

**Number** Two

**Eligibility** Available to full-time students who have completed at least 30 credit hours. One bursary will be awarded to a student with a declared a major in Business Administration and one bursary will be awarded to a student with a declared major in Natural Resources Management.

**Criteria** Academic excellence and demonstrated financial need.

**Application Instructions** Complete the financial need section of the awards application form.

**Note** Recipients of these awards are ineligible for receipt of the Canfor Legacy Endowed Scholarships and Bursaries and vice versa.

**Established** 2000

### Canfor Annual Undergraduate Scholarships

Canfor Corporation is a leading integrated forest products company with strong roots in northern British Columbia. As the largest BC producer of softwood lumber and through its 50% ownership of CPLP Income Fund one of the largest market pulp producers in Canada, Canfor is committed to fostering growth and strengthening the communities that we call "home". The Canfor Annual Awards commemorate Canfor's support of the University of Northern British Columbia and its students. They are awarded to students in recognition of academic excellence. It is Canfor's hope that these students will put their talents to work in communities throughout northern British Columbia.

**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 and Slocan Legacy Organizations.

**Criteria** Selection is based on academic excellence

**Application** Instructions If you are a relative of a Canfor employee, attach a statement attesting to this to your application form.

**Note** Recipients of these awards are ineligible for receipt of the Canfor Legacy Endowed Scholarships and Bursaries and vice versa.

**Established** 2000

## Canfor Legacy First Nations Scholarship

Canfor Corporation is a leading integrated forest products company with strong roots in northern British Columbia. As the largest BC producer of softwood lumber and through its 50% ownership of CPLP Income Fund one of the largest market pulp producers in Canada, Canfor is committed to fostering growth and strengthening the communities that we call "home". The Canfor Annual Awards commemorate Canfor's support of the University of Northern British Columbia and its students. They are awarded to students in recognition of academic excellence. It is Canfor's hope that these students will put their talents to work in communities throughout northern British Columbia.

**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 Science. Preference will be given to First Nations students.

**Criteria** Academic excellence.

**Note** Recipient of this award is ineligible for receipt of the Canfor Legacy Endowed Scholarships and Bursaries and vice versa.

**Established** 2000

**Endowed** 1993

## Canfor Legacy Undergraduate Bursaries

Canfor Corporation is a leading integrated forest products company with strong roots in northern British Columbia. With the purchase of Northwood Inc. in 1999, Canfor is the largest BC producer of softwood lumber and through its 50% ownership of CPLP Income Fund market pulp in Canada. Canfor is committed to innovative practices that foster growth and create opportunities in the north. Canfor Legacy Awards are provided yearly to commemorate Legacy Northwood's commitment to the University of Northern British Columbia and its students. In continuation of the original intent of these awards, they will recognize those students who achieve academic excellence and strive to prepare themselves for exciting careers.

**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.

**Application** Instructions Complete the financial need section of the application form.

**Note** Recipients of these awards are ineligible for receipt of the Canfor Annual Scholarships and Bursaries and vice versa.

**Endowed** 1993

## Canfor Legacy Undergraduate Scholarships

Canfor Corporation is a leading integrated forest products company with strong roots in northern British Columbia. As the largest BC producer of softwood lumber and through its 50% ownership of CPLP Income Fund one of the largest market pulp producers in Canada, Canfor is committed to fostering the growth of northern communities and creating opportunities for the people who live here. Canfor purchased Northwood Inc. in 1999 and the Canfor Legacy Awards commemorate Northwood's commitment to the University of Northern British Columbia and its students. They are awarded to students in recognition of academic excellence. It is Canfor's hope that these students will put their talents to work in communities throughout northern British Columbia.

**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 and Slocan Legacy Organizations.

**Criteria** Selection is based on academic proficiency.

**Application Instructions** If you are a relative of a Canfor or Northwood employee, attach a letter to your application form confirming this fact.

**Note** Recipients of these awards are ineligible for receipt of the Canfor Annual Scholarships and Bursaries and vice versa. The Faculty will review the applications and nominate the recipients.

**Endowed** 1993

## Awards and Financial Aid

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### Cariboo Bar Association 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.

**Application Instructions** Complete the financial need section of the awards application form.

**Endowed** 1992

### Cariboo Woodlot Education Society Bursary

The Cariboo Woodlot Education Society is a non-profit organization centered in Williams Lake, whose mandate includes promoting the public awareness of forest management for both social and economic benefits. Encouraging and enabling youth or school programs is an important focus of their mandate. Financial support is provided for a variety of forest resource education programs and activities by revenues generated through management of a woodlot located in Williams Lake.

**Donor** Cariboo Woodlot Education Society

**Value** \$1,000

**Number** One

**Eligibility** Available to full-time student who is enrolled in second or third year with a declared major in Forestry or Natural Resources Management. The recipient will be a resident from the former Cariboo Forest Region Area (100 Mile House, Williams Lake, Quesnel and areas).

**Criteria** Satisfactory academic standing and demonstrated financial need.

**Note:** Students may apply for this award more than once.

**Application Instructions** Complete the financial need and residency section of the awards application form.

**Established** 2003

### 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** Certified General Accountants Association of British Columbia

**Value** \$2,000 credit towards CGA tuition fees

**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 who will be continuing their professional education on the CGA program.

**Criteria** Academic excellence.

**Conditions** Tenable upon confirmation of enrollment in the CGA program.

**Application Instructions** Attach a letter stating your intention to enroll in the CGA program to your application.

**Note** The School of Business will nominate the recipient. No student may receive this award more than one time.

**Recipient Instructions** The School of Business will review applications and nominate the recipient.

**Established** 1996

### Chan Foucher LeFebvre LLP, Chartered Accountants Scholarship

Chan Foucher LeFebvre LLP recognizes the importance of the UNBC Bachelor of Commerce Program. Consequently the firm along with the Chartered Accountants' Education Foundation has established an annual scholarship for accounting students who personify the passion for excellence in accounting.

**Donor** Gary D. Chan, Philip H. Foucher, J. Alain LeFebvre, and Sheila A. Nelson.

**Value** \$1,000

**Number** One

**Eligibility** Available to a full time undergraduate student enrolled in the Bachelor of Commerce program, with a declared major in Accounting who has completed a minimum of 60 credit hours. Applicants must submit a letter indicating their intention to become a Chartered Accountant.

**Criteria** Academic excellence.

**Note** The deadline to apply for this award is March 1, 2007. the student is eligible to receive other awards.

**Application Instructions** Fill out all sections of the Award Application and attach a letter indicating your intention to become a Chartered Accountant.

**Endowed** 2006

## Chan Sisters Foundation Award

The Chan Sisters Foundation is dedicated to helping individuals overcome financial obstacles so they can excel in their chosen endeavours to their full potential. The Chan Sisters wish to support very bright students who demonstrate a strong obligation to contribute to their community and to give back to others the generosity that has been bestowed upon them.

**Donor** The Chan Sisters Foundation

**Value** \$2,500

**Number** One

**Eligibility** Available to a full-time student who has completed at least 60 credit hours towards their degree program.

**Criteria** Academic excellence, demonstrated community leadership/involvement. Final selection will be made on the basis of greatest financial need.

**Application Instructions** Complete the financial need section of the awards application form.

**Endowed** 2000

## Chris Winther Memorial Scholarship

Chris Winther was a long-time Prince George resident supportive of the local forest industry and devoted to his family. His keen community spirit and positive attitude earned him the reputation of being a dependable, respected businessman and one of the pioneers of a very prosperous and prominent industry. A strong belief in the importance of education and individualism were cornerstones in Chris's way of thinking. He thoroughly enjoyed young people and had the utmost respect and encouragement for those willing to strike out on their own, just as he once had done. Chris demonstrated a true love of life and a unique entrepreneurial spirit to all who knew him. This legacy has been created to carry forward this spirit.

**Donor** Family and friends

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student who is a resident of Prince George by virtue of birth or continuous dwelling within the defined area for the four years prior to admission to UNBC. The recipient will indicate his/her desire to remain in the Prince George region after graduation and demonstrate an entrepreneurial spirit.

**Criteria** Academic proficiency

**Application Instructions** Submit a brief essay outlining your career plans that reasonably demonstrate your desire to stay in Prince George following graduation and your entrepreneurial spirit. Complete the residency section of the awards application form.

**Endowed** 2001

## CIBC Wood Gundy Endowed Scholarship

CIBC Wood Gundy is one of the world's leading international financial management and advisory companies, offering a full range of investment services to individual, corporate, government, and institutional clients. The CIBC Wood Gundy Endowed Scholarship was established on their business principles of recognition for individual respect, teamwork, responsible citizenship, and integrity. The CIBC Wood Gundy Endowed Scholarship provides recognition to committed achieving students, majoring in Finance with limited resources and unlimited potential.

**Donor** Established by CIBC Wood Gundy

**Value** \$1,000

**Number** One, renewable for up to two additional years.

**Eligibility** Available to a full or part-time student who has completed a minimum of 60 credit hours with a declared major in Finance. The recipient will be a resident of northern British Columbia.

**Criteria** Academic excellence.

**Application Instructions** Complete the question regarding northern BC residency on the awards application form.

**Note** This award is renewable for up to two additional years subject to the recipient maintaining a GPA of at least 3.67.

**Endowed** 1996

## Cliff-Marcel Bursary

**Donor** Mrs. Marcelline 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.

**Application Instructions** Complete the financial need section of the awards application form.

**Endowed** 1993

## Awards and Financial Aid

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### 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.

**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 enrollment in the Certified Management Accountant professional accounting program.

**Application Instructions** Attach a letter stating your intention of pursuing a CMA designation to your application form.

**Note** Awarded in the Spring. The College will review the applications and 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 Criteria Financial need 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.

**Application Instructions** If you are a relative of a CN employee, attach a letter attesting to this fact to your awards application.

**Endowed** 1994

## Co-op Student of the Year Awards

Each year, the UNBC Co-op office will award three Co-op Student of the Year Awards. In addition to the monetary award, the winners may be nominated for the Canadian Association for Co-operative Education's (CAFCE) Student of the Year Award. Students applying for the award will be considered on the basis of their academic merit, their job achievement, and overall contribution to Co-op Education, the University and the external community.

**Donor** Co-operative Education

**Value** \$1,000

**Number** Three

**Eligibility** Available to qualified Co-op students, as defined in the Academic calendar, who have satisfactorily completed a Co-op work term within the previous calendar year (qualifying semesters include Winter, Summer and Fall). The three awards will be allocated as follows: one award will be made to a Co-op student in Business and Computer Science, one to a Co-op student from the other programs in the College of Science and Management (CSAM) and one award will be made to a Co-op student in the College of Arts, Social and Health Sciences (CASHS). Students who receive the award in one year will be eligible to be considered in future years.

**Criteria** Academic excellence, job achievement, contribution to co-operative education, contribution to extracurricular activities at school and/or community. From this criteria, each Co-op Coordinator will recommend a maximum of three student applicants from their portfolios for the award.

**Note** Students must apply directly to the Office of Co-operative

**Education.** The application deadline is January 15 of each year.

**Application Instructions** Read the application guidelines on the Co-op website or Co-op student handbook. Submit your full application package, including the following: application form, signed employer statement on company letterhead, signed Co-op Coordinator statement on University letterhead, signed personal statement, current academic transcript, resume and learning portfolio.

**Recipient** Selection Senate Committee on Scholarships and Bursaries, on recommendation of a committee comprised of the Director of Co-operative Education, a faculty representative from CSAM, a faculty representative from CASHS, and an employer representative who will review the applications recommended by the Co-operative Education Coordinators.

**Established** 2005

## 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 cooperative movement in Canada.

**Donor** Credit Union Foundation of BC

**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.

**Application Instructions** Complete the financial need section on your award application form.

**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.

**Application Instructions** Complete the financial need section of the awards application form. Attach two letters of reference from two professors.

**Note** The College will review the applications and nominate the recipient.

**Established** 1999

## Awards and Financial Aid

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### Deloitte and Touche Endowed Bursary

This fund was established in 1997. Donations totalling approximately \$30,000 have been contributed to the endowment, with partial matching funds provided by the provincial government. The Endowed Fund recognizes and supports students enrolled in the Commerce-Accounting Major who demonstrate financial need.

**Donor** Deloitte & Touche Chartered Accountants

**Value** \$1,000

**Number** Two

**Eligibility** Available to full-time students who have completed a minimum of 30 credit hours towards a Bachelor of Commerce degree with a declared major in Accounting.

**Criteria** Demonstrated financial need and satisfactory academic standing.

**Application Instructions** Complete the financial need section of your application form.

**Endowed** 1997

### Deloitte and Touche Scholarship

By March 1995, Deloitte & Touche Chartered Accountants contributed a total of \$30,000 towards the Deloitte & Touche Endowed Scholarship fund. With matching funds provided by the provincial government, the value of the endowment will double to \$60,000. The endowed fund recognizes and supports undergraduate students enrolled in the Commerce program with declared majors in Accounting who demonstrate superior academic achievement

**Donor** Deloitte and Touche Chartered Accountants

**Value** \$1,000

**Number** Three

**Eligibility** Available to a full-time student who has completed at least 30 credit hours towards a degree in Business Administration with a declared major in Accounting.

**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.

**Application Instructions** Attach a brief description of your views of current and future forest management activities to your application form.

**Note:** The College of Science and Management will review applications and, in discussion with Mrs. Little and/or designate, nominate the recipients.

**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** \$2,000

**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.

**Application Instructions** Complete the financial need section of the awards application form.

**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.

**Application Instructions** Complete the financial need section of the awards application form.

**Note:** No student shall receive the Dunkley Lumber Ltd. Bursary more than once. The Faculty will review the applications and nominate the recipient.

**Endowed** 1992

## Dunkley Lumber Ltd. Scholarship

**Donor** Dunkley Lumber Ltd.

**Value** \$2,000

**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** Academic excellence. Final selection will be made on the basis of superior academic achievement.

**Application Instructions** If you are a relative of a Dunkley employee, attach a statement attesting to this fact to your application form.

**Note:** No student shall receive the Dunkley Lumber Ltd. Scholarship more than once. The College will review the applications and nominate the recipient.

**Endowed** 1992

## Dwight Gregory Hickey Memorial Bursary

Dwight Hickey was founding President and Senior Fisheries Biologist for Environmental Dynamics Inc., a natural resource consulting company, established in 1994. Dwight participated as a guest lecturer in the Natural Resource and Environmental Studies program at UNBC and recognized that the university provided an excellent source of qualified, capable graduates to join his staff and provided summer students with practical experience in natural resources fieldwork. This bursary is to assist a student in the Natural Resource and Environmental Studies program committed to the protection of the environment.

**Donor** Connie Giles Hickey

**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 the interdisciplinary focus of Natural Resource Management.

**Criteria** Demonstrated financial need and academic proficiency.

**Application Instructions** Attach a short essay on innovation and the interdisciplinary focus of NRM to your application form.

**Note** The College of Science and Management will review the applications and nominate the recipient.

**Endowed** 1999

## 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 School of Business 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

## Awards and Financial Aid

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### Fasken Martineau DuMoulin Annual Scholarship

Fasken Martineau DuMoulin understands the importance and value to the community of maintaining and enhancing environmental standards. This is accomplished through the work of Fasken Martineau 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.

**Donor** Fasken Martineau DuMoulin

**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 ENPL 401 (Environmental Law). The candidate must demonstrate an interest in the area of environmental law and/or policy.

**Criteria** Academic excellence.

**Application Instructions** Attach a 200 word essay in the area of environmental law/policy to your application form. The College will review the applications and nominate the recipient.

**Established** 1999

### Father Thomas General Assembly #1321 Bursaries

The Knights of Columbus are a Catholic family, fraternal service organization that operates under the basic principles of Charity, Unity, Fraternity and Patriotism. They are an organization with over 1.6 million members throughout North America, Puerto Rico and the Philippines, who excel in charitable contributions and volunteer service with the communities they serve. The Father Thomas General Assembly #1321 are Fourth Degree Knights of Columbus in the Prince George, BC area, who focus on the orders' principle of patriotism. They are keen to promote community as well as education of potential community leaders.

**Donor** Father Thomas General Assembly #1321, Fourth Degree Knights of Columbus, BC and Yukon jurisdiction, located in Prince George, BC.

**Value** \$500

**Number** Four

**Eligibility** Available to a full-time student who is a resident of northern British Columbia who has completed at least 30 credit hours towards a UNBC degree.

**Criteria** Satisfactory academic standing and financial need.

**Application Instructions** Complete the financial need section of the awards application form.

**Established** 2001

### 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.

**Application Instructions** Attach a letter of reference from two of your professors attesting to your leadership in the classroom/field and work ethic to your application form.

**Note** The Chemistry Chair will review the applications and 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.

**Application Instructions** Submit two letters of recommendation from faculty or peers with your application that support your nomination for this award.

**Note** The College will review the applications and nominate the recipient.

**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.

**Criteria** Academic proficiency with a minimum GPA of 3.00 and demonstrated community service and extracurricular activities.

**Application Instructions** Attach a letter outlining your community service/extracurricular activities to your application form.

**Endowed** 1995

## Gary Johnson Memorial Bursary

Gary Johnson was the proud owner of Lovell Logging Ltd. and a long-time logging contractor in the Lovell Cove (Takla Lake) and Prince George area. Gary started in business in the mid-1970's logging for Pinette & Therrien Mills located in Williams Lake. Gary was sent to Silvacan (Lovell Cove) where he built logging roads and logged for Silvacan Resources (Pinette & Therrien Mills). He remained in this area until the early 1980's at which time Gary was moved to the Prince George area. He built the road from 38 kilometres on the driftwood road (north of Fort St. James) into Lovell Cove. He logged in Lovell Cove until the Fall of 1998. One of his final requests was to establish an award at UNBC that would help students of this region have the opportunity to attain a university education in Forestry and move on to play a role in the industry that Gary cared so much about. 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.

**Donor** The Gary Johnson Family

**Value** \$1,500

**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.

**Application Instructions** Answer the question regarding northern residency on your application form.

**Endowed** 1995

## 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 remained dedicated to UNBC, where he continued to teach and publish as a professor of International Studies. Dr. Weller passed away in 2000.

**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

## Gerald Kirschke Memorial Bursary

This bursary was established in memory of Gerald Kirschke. Gerald was a second generation logger who grew up in the Prince George area. Gerry owned and operated Six Mile Lake Logging Ltd. which operated east of town throughout the seventies and eighties. His father Bill Kirschke owned and operated Six Mile Lake Sawmills on Tabor Lake throughout the fifties and sixties. Gerry was well respected throughout the forest industry and believed there was a strong future in forestry for the North. This bursary is intended to support a student in Natural Resources Management who is experiencing financial need.

**Donor** Frost Lake Logging Ltd.

**Value** \$2,500

**Number** One

**Eligibility** Available to a full time undergraduate student with a declared major in Natural Resources Management BSc degree program who has completed 30 credit hours. Preference will be given to a resident of Northern British Columbia.

**Criteria** Demonstrated financial need and academic proficiency.

**Application Instructions** Fill out all sections of the Awards Application form.

**Established** 2007

## Awards and Financial Aid

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### Gertrude Bryant and Family Endowed Bursary

Gertrude Bryant, realtor and artist, believed the opportunities in Prince George were unlimited for those with a vision. Following the Northern Health Care Rally in 2000, Mrs. Bryant and her family designated their original 1998 gift to what was to become the Northern Medical Program, and then further enhanced the endowment with a bequest. It was her desire that Prince George had access to outstanding health care and physicians, and her belief that the NMP would, in time, provide that excellence.

**Donor** Mrs. Gertrude (Trudy) Bryant and Family

**Value** maximum of \$1,000

**Number** One

**Eligibility** Available to a full-time student, who is a resident of British Columbia (north of 100 Mile House) and is enrolled in their second year of the UBC undergraduate program in Medicine and resident in the Northern Medical Program.

**Criteria** Demonstrated financial need.

**Recipient Selection Committee:** Committee chaired by the Assistant Dean of Student Affairs, NMP (UBC) and/or the Associate Vice President, Medicine, UNBC.

**Note:** Preference will be given to a student who completed high school in Prince George.

**Endowed** 1998

### 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** Two

**Eligibility** Available to a full-time student who is a resident of northern British Columbia (as defined in the Awards and Financial Aid Section of the UNBC Calendar) who has completed a minimum of 60 credit hours towards his/her degree. The student must be enrolled in the Northern, Rural and Community Planning stream of the Planning Program.

**Criteria** Academic proficiency with a minimum GPA of 3.00, demonstrated leadership, and superior work ethic.

**Application Instructions** Attach a letter outlining your leadership skills and work ethic to your application.

**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.

**Application Instructions** Complete the financial need section of your application form.

**Established** 1998

### Gordon Ternowetsky Memorial Bursary

Gordon Ternowetsky (1946-1999) was one of the founding faculty members of UNBC, hired as the first professor in the Social Work program. Teacher, author, and family man, Gordon was instrumental in establishing the Child Welfare Research Centre at UNBC. This bursary was established by UNBC students, colleagues and friends as a tribute to his memory.

**Donor** Family and others

**Value** \$500

**Number** One

**Eligibility** Available to a full- or part-time student enrolled in the Bachelor of Social Work program.

**Criteria** Demonstrated financial need and satisfactory academic standing.

**Application Instructions** Complete the financial need section of the awards application form.

**Note** Selection of the recipient is based on the recommendation of the Social Work program.

**Endowed** 1999

## 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.

**Selection Criteria** The Silver Medal will be awarded on the basis of the highest GPA over the student's program.

**Note** The Colleges will nominate candidates. This award may rotate between UNBC faculties.

**Established** 1996

## Helen and Raymond Hatch Bursary

This award is established by Helen and Raymond Hatch in recognition of the importance of nursing to health care delivery and for the outstanding care provided by nurses to the family.

**Donor** Helen A. Hatch

**Value** \$2,500

**Number** One

**Eligibility** Available to a full time undergraduate student with a declared major in the Northern Collaborative Baccalaureate Nursing Program who has completed 60 credit hours and is a resident of northern British Columbia. If an eligible resident of northern British Columbia can not be identified, other applicants will be considered.

**Criteria** Demonstrated financial need.

**Note** Successful applicants may reapply for this award in subsequent years.

**Application Instructions** Fill out the Financial Need section of the Awards Application form.

**Recipient Selection** Senate Committee on Scholarships and Bursaries on recommendation by the UNBC Awards Office.

**Endowed** 2007

## 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.

**Application Instructions** Attach a letter outlining your community service to your application form.

**Endowed** 1993

## H.B. (Herb) Osen Endowed 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 business ethics that we would all be proud to follow. Following the establishment of the award, Herb Osen and his family, as well as a number of colleagues in the insurance industry, have chosen to enhance this bursary which was endowed in 2000.

**Donor** Brian and Jackie Brownridge

**Value** \$500, plus interest accrued on the endowment.

**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.

**Application Instructions** Attach a letter outlining your community service/leadership skills to your application.

**Established** 1999

**Endowed** 2000

## Awards and Financial Aid

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### 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.

**Application Instructions** Complete the financial need section of your application form.

**Note** The College will review the applications and 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 BC Forest Professionals.

**Criteria** Academic excellence.

**Application Instructions** Complete the question regarding northern residency on your application form.

**Note** The College will review the applications and nominate the recipient.

**Established** 1997

### Initiatives Prince George (Tourism Prince George) Bursary

Initiatives 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 fund-raising 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 Nature-Based Tourism Management 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.

**Application Instructions** Complete the financial need section of the application form and answer the question regarding northern BC residency.

**Established** 1997

### Insurance Corporation of British Columbia Bursary

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.

**Application Instructions** Attach a letter confirming that you have a safe driving record to your application form. Complete the financial need section of the form.

**Note** Candidates must have and maintain a safe driving record. Recipients will receive consideration for appropriate summer work opportunities where available.

**Established** 2000

## Integrus Credit Union Bursary

Integrus Credit Union is a local, autonomous provider of financial and related services based on principles of quality, professionalism, and ethics, with regard for its members' needs.

**Donor** Integrus Credit Union

**Value** \$1,500

**Number** Four

**Eligibility** Available to a full time student who has completed 30 credit hours. Preference will be given to a resident of Northern British Columbia and/or a dependent relative of an Integrus Credit Union member.

**Application Instructions** Fill out all sections of the Awards Application form. If you are a member of Integrus Credit Union or a dependent relative of a member of Integrus Credit Union, include a statement confirming this on your application.

**Endowed** 1996

## Integrus Credit Union Scholarship

Integrus Credit Union is a local, autonomous provider of financial and related services based on principles of quality, professionalism, and ethics, with regard for its members' needs.

**Donor** Integrus Credit Union

**Value** \$3,000

**Number** One

**Eligibility** Available to a full time undergraduate student who has completed at least 30 credit hours. Preference will be given to a resident of Northern British Columbia and/or a dependent relative of an Integrus Credit Union member.

**Criteria** Academic excellence.

**Application Instructions** Fill out all sections of the Awards Application form. If you are a member of Integrus Credit Union or a dependent relative of a member of Integrus Credit Union, include a statement confirming this on your application.

**Endowed** 1996

## IODE – Elsie Gerdes 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 emergency). IODE is friends working together to make "good things" happen in their communities. Elsie Gerdes was a founding member of the Interior University Society and the Implementation Planning Group working to establish UNBC.

**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.

**Application Instructions** Complete the financial need section of the application form.

**Endowed** 1992

## Ivor Killy Co-op 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** \$1,000 first two academic terms, \$2,000 second two academic terms

**Number** One

**Eligibility** Available to a full-time co-op student who has completed the first two years of a degree program with a declared major in Natural Resources and Environmental Studies. The recipient must be a resident of northern British Columbia by virtue of birth or continuous dwelling immediately prior to the first receipt of the award.

**Criteria** Demonstrated community service and academic excellence.

**Application Instructions** Attach a letter outlining your community service to your application form, and complete the question regarding northern residency.

**Conditions** Tenable for up to four academic terms upon maintaining a minimum average grade of B (3.00 GPA).

**Endowed** 1994

## Awards and Financial Aid

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### 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 Natural Resources and Environmental Studies or Management or Administration. The recipient must be a resident of northern British Columbia by virtue of birth or five years continuous residence immediately prior to first receipt of the award.

**Criteria** Demonstrated community service and academic excellence.

**Application Instructions** Attach a letter outlining your community service to your application form, and complete the question regarding northern residency.

**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 and May Fon Lee Memorial 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.

**Application Instructions** Attach a letter outlining your career goals, study plans and leadership abilities to your application form.

**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 BScN 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.

**Application Instructions** Complete the financial need section of the application form.

**Note** A student may be considered for this award more than once.

**Endowed** 1995

### Jerry Deere Memorial Forestry Scholarship

Jerry Deere, RPF, MBA, graduate of UBC, was the President and part owner of East Fraser Fibre Company and a former 25-year Canfor executive. His strong sense of fair play and integrity helped shape many standards and policies in the forest industry. In addition to his business pursuits, Jerry was a strong advocate of this community. He was a COFI board member and past president, Prince George Regional Airport Committee Member, a founder of the Provincial 4-H Foundation and sat on numerous UNBC committees. Colleagues and employees respected Jerry as a leader in the business world. His ethics both in business and personal life were such that we would all be proud to follow.

**Donor** Family And Friends Of Jerry Deere

**Value** \$1,000

**Number** One

**Eligibility** Available to full time undergraduate students who has completed a minimum of 60 credit hours at UNBC and is enrolled in the Natural Resources Management program with a declared major in Forestry. Preference will be given to a resident of Northern British Columbia.

**Criteria** Academic Excellence and Community Involvement.

**Note** Recipients may receive this award more than once.

**Application Instructions** Fill out all sections of the Awards application form and attach a letter outlining your community involvement.

**Recipient Selection** The Senate Committee on Scholarships and Bursaries, on recommendation by the Awards Officer with the endorsement of the Family of Jerry Deere.

**Endowed** 2005



## 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."

**Donor** John and Eileen Bryan and Family

**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.

**Application Instructions** Complete the financial need section of the application form and answer the question regarding northern residency.

**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

## Kenneth Wong Memorial Scholarships

Jeanie Honour, a long time Prince George resident has established the Kenneth Wong Memorial Scholarships in memory of her brother Kenneth Wong (also a long-time Prince George resident). The Kenneth Wong Memorial Scholarships provide opportunities to post secondary education once unavailable to Ms. Honour and her brother.

**Donor** Jeanie Wong

**Value** \$1,000

**Number** Five

**Eligibility** Available to full-time students who are residents of northern British Columbia, who have completed at least 30 credit hours towards a UNBC degree, and who have a declared major.

**Criteria** Academic excellence

**Application Instructions** Complete the residency section of the awards application form will be given to a resident of northern British Columbia.

**Endowed** 2001

## 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 Commerce degree program and who has declared a major in Accounting.

**Criteria** Academic excellence.

**Application Instructions** Answer the question regarding northern residency on the application form.

**Endowed** 1993

## Awards and Financial Aid

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### 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.

**Application Instructions** Attach a letter outlining your community service/athletic involvement to your application form.

**Endowed** 1994

### Lakeland Mills Ltd. Bursary

Lakeland Mills Ltd. recognizes that the cost of attending University can sometimes be an insurmountable obstacle for students who hope to pursue careers that require a University education. It is Lakeland's intention with this bursary to provide some financial assistance to a deserving student each year that will help to reduce that financial burden.

**Donor** Lakeland Mills Ltd.

**Value** \$1,000

**Number** One

**Eligibility** Available to a child of an employee of Lakeland Mills who is enrolled (full time/part time) in any degree program at the University of Northern British Columbia. Should no applicant with a parent employed at Lakeland Mills apply, then the award will be awarded to any student who has demonstrated financial need in the pursuit of their university education.

**Criteria:** Demonstrated Financial Need.

**Application Instructions** Complete the financial need sections of the awards application form and if you are a relative of a Lakeland Mills employee, attach a statement attesting to this fact with your application form..

**Established** 2004

### Lakeland Mills Ltd. Scholarship

Lakeland Mills Ltd. believes that the future of our country will depend to a large degree on the skills and abilities of our present generation of University students. In order to foster excellence in scholastic achievement, Lakeland offers this annual scholarship.

**Donor** Lakeland Mills Ltd.

**Value** \$1,000

**Number** One

**Eligibility** Available to an undergraduate student in any program.

**Criteria:** Academic Excellence

**Established** 2004

### Lou and Coby Veeken Bursary

The Veeken family has been in Prince George for 50 years. The community has been very good to the Veeken Family and they wish to acknowledge their community pride with this award.

**Donor** Lou and Coby Veeken

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student enrolled in the Natural Resources Management, Biology or Forestry program who has completed a minimum of 30 credit hours. The recipient must be resident of Prince George or Fraser Fort George Regional District.

**Criteria:** Demonstrated Financial Need.

**Application Instructions** Complete the financial need and residency sections of the awards application form.

**Note:** Students may not receive this award more than once.

**Established** 2003

## Mark Sunstrum Bursary

This bursary has been established in the name of Mark Sunstrum, beloved father, husband, friend and colleague, who believed that “Playing with our knowledge and experience can change perspectives and make the ordinary extraordinary and the unusual commonplace.”

**Donor** Friends, Family and Colleagues of Mark Sunstrum

**Value** \$500

**Number** One

**Eligibility** Available to a full time undergraduate student enrolled in Natural Resources Management or GIS who has completed 30 credit hours. First preference will be given to a student enrolled in Natural Resources Management with a declared major in Forestry. Second preference will be given to a resident of Northern British Columbia.

**Criteria** Demonstrated financial need and satisfactory academic standing.

**Application Instructions** Fill out all sections of the Awards application form and submit a brief essay on your interpretation of the belief held by Mark Sunstrum, which is detailed above.

**Endowed** 2008

## Marjorie W. Poff Scholarship

Dr. Deborah Poff was one of the earliest administrators and faculty members of UNBC, serving as Dean of Arts and Sciences and moving into the position of Vice President Academic. Dr. Poff established this award in memory of her mother Marjorie Poff. Marjorie Poff believed strongly in education and the ability to expand your world with that knowledge. A life-long learner, she cared strongly about the justice and equality of women.

**Donor** Dr. Deborah Poff

**Value** \$1,000

**Number** One

**Eligibility** Available to a female student who has completed at least 30 credit hours towards a UNBC degree. The successful candidate will have demonstrated community/volunteer service in areas such as: justice, equality, women’s shelters and like types of service.

**Application Instructions** Attach a letter outlining your community involvement in the areas described above to your application form.

**Established** 2000

## 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

## Mary Fallis Scholarship

Mary Fallis arrived in Prince George in 1969 to become a founding member of the English Department at the College of New Caledonia. After her retirement she remained in Prince George sharing her passions: learning, photography, mountain climbing and conservation of the natural world. She received an Award of Merit in Recreation from the city of Prince George, and in 1994, was made a Friend of the University of Northern British Columbia. She had a keen interest in the lives of her twelve nieces and nephews. They, with her friends in the community and across the country, have established this scholarship in her name. It is to be an on-going tribute to Mary Fallis – educator, naturalist and photographer.

**Donor** Family and friends of Mary Fallis

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time or part-time student who has completed at least 60 credit hours towards a degree with a declared major in English. The recipient will be a resident of northern BC.

**Criteria** Academic excellence

**Application Instructions** Complete the residency section of the awards application form.

**Endowed** 2000

## Awards and Financial Aid

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### Mathematics and Computing Science Undergraduate Prizes

The Mathematics Undergraduate Prize and the Computer Science Undergraduate Prize were established by the Faculty members of Mathematics and Computer Science. These prizes will recognize student excellence in these programs.

**Donor** Faculty of Mathematics and Computer Science

**Value** \$100 prize for a Mathematics undergraduate  
\$100 prize for a Computer Science undergraduate

**Number** One in each of Mathematics and Computer Science

**Eligibility** Available to full-time students with a declared major in Mathematics or joint major in Mathematics and a second discipline, and students with a declared major in Computer Science or joint major in Computer Science and a second discipline. The recipients will have completed all requirements for their degree by the end of the preceding fall or winter semester.

**Criteria** Primary criteria will be the GPA in relevant Mathematics/Computing Science courses and overall GPA. Additional criteria may include GPA in the last four semesters, involvement with the Mathematics/Computer Science Program, performance in contests, and performance in undergraduate research projects.

**Conditions** Students are not eligible to receive these prizes more than once.

**Note:** The program will nominate the recipients. The prizes will be awarded annually in May during a program event organized by the Faculty.

**Endowed** 2002

### 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 Outdoor Recreation and Conservation (BSc. program) or Nature-Based Tourism Management (BA program)

**Criteria** Financial need. Final selection will be made on the basis of greatest financial need.

**Application Instructions** Complete the financial need section of the application form.

**Endowed** 1998

### Mel and Vera La Pointe Memorial Scholarship

The eight children of Mel and Vera La Pointe jointly endowed this scholarship in the year 2000. Mel was the son of a pioneering family who arrived in Giscome in 1925. The family wishes to commemorate Mel's life-long interest in, and stewardship of, the natural resources. Mel worked with and enjoyed forestry, fish and wildlife, geology and farming. The family also wishes to recognize Vera's commitment to the value of education. This scholarship is to encourage others to share the appreciation and contribution of the natural resources where we live.

**Donor** The children of Mel and Vera La Pointe

**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 a Natural Resources and Environmental Studies program.

**Criteria** Academic proficiency, with preference to a student demonstrating financial need.

**Application Instructions** Complete the financial need section of the application form.

**Endowed** 2000

### 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. Administration majoring in the General Business program, and have completed a minimum of 60 credit hours towards his/her Preference will be given to students who can demonstrate an interest in international trade between northern British Columbia and Japan.

**Criteria** Academic excellence.

**Application Instructions** Attach a letter outlining your interest in Japan-BC trade to your application form.

**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.

**Application Instructions** Attach a letter outlining your career plans to your application form.

**Endowed** 1993

### Nancy Anne Tarrant Memorial Bursary

The Nancy Anne Tarrant Memorial Bursary establishes a lasting legacy to Nancy's dedication and enthusiasm of post-secondary education in northern British Columbia. Nancy was a faculty member in the Dental Studies Department of the College of New Caledonia for 25 years, where she was a Board member from 1995-1997. This Bursary is a fitting and lasting testament to Nancy's ambitions and accomplishments and one that will benefit students in the Health and Human Sciences Faculty of the University of Northern British Columbia for many years.

**Donors** Raymond W. and Helen A. Hatch

**Value** \$1,500

**Number** One in 2007/2008, Two in each year after.

**Eligibility** Available to a full-time undergraduate student with a declared major in the Northern Collaborative Baccalaureate Nursing Program who has completed 60 credit hours, who is a resident of northern British Columbia. If an eligible resident of northern British Columbia can not be identified, other applicants will be considered.

**Criteria** Demonstrated financial need.

**Application Instructions** Fill out the Financial Need section of the Awards Application form.

**Note** Successful applicants may reapply for this award in subsequent years.

**Endowed** 2000

### 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.

**Application Instructions** Attach a membership confirmation letter bearing the seal of an Eastern Star chapter to your application form. Include a letter outlining why you should receive this bursary.

**Endowed** 1994

### 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.

**Application Instructions** Attach a brief essay demonstrating your commitment to forest mensuration to your application form.

**Note** The College will review the applications and nominate the recipient.

**Established** 1997

## Awards and Financial Aid

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### 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.

**Application Instructions** Complete the financial need section of the application form.

**Note** A student may not normally receive this award more than once.

**Endowed** 1999

### Northern Undergraduate Student Society Bursaries

This fund was established by the members of the Northern Undergraduate Student Society who wish to support undergraduate students of the University of Northern British Columbia to attain their full potential as educated and productive members of society by the provision of annual bursaries.

**Donor** Northern Undergraduate Student Society

**Value** \$500

**Number** Variable

**Eligibility** Available to an undergraduate student who has demonstrated exceptional University community service.

**Criteria** Academic proficiency, demonstrated financial need and exceptional University community service.

**Application Instructions** Submit three letters of reference demonstrating community service with your application. Complete the financial need section of the application form.

**Note** No candidate may receive this award more than once.

**Endowed** 2000

### 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.

**Application Instructions** Complete the financial need section of the application form and answer the question regarding BC residency.

**Note** No student may receive the Novak Bros. Contracting Ltd. Bursary more than once.

**Endowed** 1992

### Novak Bros. Contracting Ltd. Scholarship

**Donor** Novak Bros. Contracting Ltd.

**Value** \$2,000

**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 excellence.

**Application Instructions** Complete the question regarding BC residency on the application form.

**Note** No student may receive the Novak Bros. Contracting Ltd. Scholarship more than once.

**Endowed** 1992

### Pacific Blue Cross Bursary for Northern Medical Students

Pacific Blue Cross is British Columbia's largest provider of medical and dental benefits. Today, almost two million British Columbians have benefit coverage through Pacific Blue Cross. Pacific Blue Cross has established this award at UNBC to support the future providers of healthcare.

**Donor** Pacific Blue Cross

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student enrolled in the Northern Medical Program, who is commencing the portion of their medical studies which takes place at the University of Northern British Columbia.

**Criteria** Financial need and academic excellence.

**Established** 2004

## 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.

**Application Instructions** Attach a letter outlining your community service/leadership to your application form, along with a statement regarding how you meet the residency requirement for this award.

**Endowed** 1996

## Perry Michael Shawana Bursary

Perry Michael Shawana was committed to improving peoples lives through both his academic and community endeavours. A member of the Ojibway Serpent River First Nations in Northern Ontario, Perry spent most of his professional life in Northern British Columbia. As Associate Professor and Chair of the First Nations Program at UNBC, Perry was dedicated to providing opportunities for Aboriginal students, and bringing aboriginal knowledge and understanding to non-Aboriginal people. Through his sole practice, Perry provided legal counsel to many First Nations Councils, Authorities and to a variety of other clients. As a community-minded, driven individual, Mr. Shawana was a long time member of the BC Children Commission, and was instrumental in establishing both Carrier Sekani Family Services and the BC Aboriginal Care Society.

Perry Michael Shawana was passionate about and dedicated to education. This bursary has been created in keeping with the commitment that he had to helping people improve their lives by acquiring knowledge.

**Donor** Carrier Sekani Family Services and UNBC

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time or part-time undergraduate student in who has completed 30 credit hours and has a declared major in one of the following programs: Biology, Environmental Planning, Environmental Science, First Nations Studies, Natural Resources Management or Social Work.

**Criteria** Demonstrated financial need and academic proficiency.

**Note** Successful applicants may receive this award more than once.

**Application Instructions** Fill out the financial need section of the Awards Application form and attach a letter outlining your career goals and how they relate to the advancement of First Nations and Aboriginal people.

**Endowed** 2006

## 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.

**Application Instructions** Attach a letter outlining your community service to your application form, and complete the question regarding northern BC residency.

**Note** The faculty will review the applications and nominate the recipient.

**Endowed** 1997

## Petro-Canada Undergraduate Bursary in Environmental Study

Petro-Canada's social vision focuses on the development of Canadian talent, expertise and innovation through education. A healthy environment is of central importance; it is essential for Canada's continued well-being. Petro-Canada is proud to support students in the study of the environment.

**Donor** Petro-Canada

**Value** \$2,000

**Number** Three

**Eligibility** Available to a full-time student who has completed a minimum of 30 credits and has declared a major in one of the approved programs\* of environmental study.

**Criteria** Demonstrated financial need

## Awards and Financial Aid

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\*The approved programs of environmental study are:

Bachelor of Arts, Environmental Science  
Bachelor of Science, Environmental Science  
Bachelor of Arts or Bachelor of Science, Geography  
Bachelor of Applied Science, Environmental Engineering  
Bachelor of Science, Biology  
Bachelor of Science, Biology/Chemistry Joint Major  
Bachelor of Science, Chemistry  
Bachelor of Science, Natural Resources Management  
(Forestry, Wildlife & Fisheries Streams)

**Note:** Given all other aspects being equal, preference will be given to an Aboriginal student.

**Established** 2003

### Phil Bodman Memorial Bursary

The Council of Forest Industries, Northern Operations Forest Education Programme established the Phil Bodman Memorial Bursary in order to assist students experiencing need who have completed their first year of study in Natural Resources Management (Forestry) program. The COFI northern education region encompasses the area from Valemount to Hazelton and Quesnel to Fort Nelson.

**Donor** Council of Forestry Industries, Northern Operations Forest Education Programme

**Value** \$1,000

**Number** One

**Eligibility** Available to a full time undergraduate student with a declared major Natural Resources Management (Forestry) who has completed 30 credit hours.

**Criteria** Demonstrated financial need and GPA standing of at least 2.5.

**Conditions** No one may hold the Phil Bodman Memorial Bursary and the Sam Ketchum Memorial Scholarship at the same time.

**Application Instructions** Fill out the Financial Need section of the Awards Application form.

**Established** 2007

### Planning Institute of British Columbia Scholarship and Annual Book Prize

The Planning Institute of British Columbia has been dedicated to the advancement of the planning profession of British Columbia and the Yukon since 1958. Members of the Planning Institute serve the interests of the public in providing full, clear and accurate information on public planning matters.

**Donor** Planning Institute of British Columbia

**Value** \$1,000 Scholarship

\$100 Annual Book Prize

**Number** One scholarship and one prize

**Eligibility** Available to full-time students with a declared major in Environmental Planning who have completed at least 90 credit hours.

**Criteria** Academic excellence. Preference will be given to students who have participated in on or more of the following planning related activities: in class projects, the UNBC Planning Club, within the University Community and/or the larger region served by UNBC.

**Note** The College will nominate the recipient.

**Established** 2002

### Prince George District Teachers' Association Scholarship

This annual award was established by the members of the Prince George District Teachers' Association who wish to support undergraduate students of the University of Northern British Columbia who are enrolling in the Bachelor of Education program leading to a teaching career in the public school system.

**Donor** Prince George District Teacher's Association

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student who has completed at least 30 credit hours in the Bachelor of Education Program. The recipient will have graduated from a public secondary school in School District #57.

**Criteria** Demonstrated academic proficiency.

**Note:** The recipient may apply for this award more than once.

**Established** 2003



## 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.

**Application Instructions** Complete the financial need section on your application form as well as the question regarding northern residency.

**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.

**Application Instructions** Attach a letter to your application form which outlines your career goals.

**Endowed** 1993

## 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.

**Application Instructions** Attached a letter outlining your intention to pursue a career in silviculture or forest nursery to your application form.

**Note:** The College of Science and Management will review the applications and nominate the recipient.

**Established** 1994

## R. Priefer Organic Chemistry Prize

Ronny Priefer graduated from UNBC with a BSc in Chemistry in 1998. He has established this prize to celebrate many things: his experience at UNBC, the talent and efforts of his instructors and the potential of current students in the UNBC Chemistry program. The R. Priefer Organic Chemistry Prize will distinguish an undergraduate chemistry student who has shown the most promise as an organic chemist each year.

**Donor** Ronny Priefer, PhD.

**Value** Variable, at least \$150

**Number** One

**Eligibility** Available to a full or part time undergraduate student with a declared major in Chemistry who has completed 90 credit hours.

**Criteria** Academic excellence in relevant Chemistry courses and overall GPA. Additional criteria may include GPA in the last four semesters, involvement with the Chemistry Program, performance in contests, and performance in undergraduate research projects.

**Application Instructions** The Program will nominate the recipient.

**Established** 2007

## Awards and Financial Aid

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### R.T. Wilson Rural and Remote Nursing Clinical Practicum Bursary

The R.T. Wilson Rural and Remote Nursing Clinical Practicum Bursary has been established to provide financial assistance for Bachelor of Science in Nursing students in their third and fourth year undertaking clinical practica outside of Prince George, Quesnel or Terrace in rural or remote venues. The bursaries are intended to support student expenses associated with clinical practicum placements in which students must be away from their primary place of residence.

**Donor** R.T. (Tony) Wilson (Estate)

**Value**

NURS 320 – Extended Clinical Practicum II (\$400)  
NURS 416 – Clinical Practicum: Community Nursing (\$400)  
Fourth Year Focus Practicum Courses (\$600)

**Number** Variable – the number of bursaries at each level will be determined annually.

**Eligibility** Available to full time students enrolled in the Northern Collaborative Baccalaureate Nursing Program or the Post Diploma BScN in the following clinical courses:

NURS 320 – Extended Clinical Practicum II,  
NURS 416 – Clinical Practicum: Community  
Nursing and Fourth Year Focus Practicum Courses.

**Criteria** Demonstrated financial need and a cumulative GPA of 3.0 or higher; must undertake the whole practicum in a rural or remote location.

**Note** Successful applicants may receive this award more than once, that is, once for each clinical course listed above.

**Application Instructions** Fill out the Financial Need and Voluntary Information sections of the Awards Application form.

**Endowed** 2006

### R. Williams/B. La Pointe Scholarship

R. Williams/B. La Pointe has established this scholarship of its close association with the BC Ministry of Forests and the Quesnel River Enhancement Society. The scholarship is supported through funds received from their woodlot located near Likely, BC. This award recognizes the collective efforts to establish the Landscape Ecology Chair at UNBC and at the Quesnel River Hatchery at Likely.

**Donor** R. Williams/B. La Pointe

**Value** \$1,200

**Number** One

**Eligibility** Available to a full-time student enrolled in second or third year with a declared major in Natural Resources Management or Forestry. The recipient must be a resident from the former Cariboo Forest Region Area (100 Mile House, Williams Lake, Quesnel, and areas). If no Cariboo residents are identified, the award may be allocated to other students doing studies related to issues of importance to Cariboo resource management.

**Criteria** Academic excellence with preference to students demonstrating financial need.

**Application Instructions** Complete the financial need and northern British Columbia.

**Criteria** Demonstrated financial need and satisfactory residency sections of the awards application form.

**Note** Students may apply for this award more than once.

**Established** 2003

### Rix Family Foundation Endowed Health Sciences Bursary

The Rix Family Foundation is pleased to recognize Health Science students pursuing undergraduate level studies in Health Sciences at UNBC with this annual bursary. This annual bursary reflects the Foundation's commitment to support health-related education and research in both academic and community settings in British Columbia and recognizes the financial need of students who have the potential to make a valuable contribution to health services and research in BC.

**Donor** The Rix Family Foundation

**Value** \$1,250 (approximate)

**Number** One

**Eligibility** Available to a full-time student who has completed at least 30 credit hours towards a degree with a declared major in Health Sciences (Nursing, Psychology, Social Work, or other degree programs to be established in the future). The recipient must be a resident of northern BC.

**Criteria** Demonstrated financial need and academic proficiency.

**Application Instructions** Complete the financial need and residency sections of the awards application form.

**Note** Students may apply for this award more than once.

**Endowed** 2003

### Robin Fisher Prize in History

This award honors a senior undergraduate History student for writing the outstanding essay in a calendar year on the subject of BC or Native (not limited to BC or Canada) History.

**Donor** History Program

**Value** \$400 value in history books

**Number** One

**Eligibility** Available to a senior History student

**Criteria** Selection is based on the outstanding essay on BC or Native History.

**Note** Student may not receive this award more than once. The Faculty will nominate the recipient.

**Established** 2002

## Ron Brown Memorial Bursary

Ron Brown Served UNBC as Chair of Chemistry and Dean of the College of Science and Management. He was an outstanding leader, a man that many respected and admired. He was also a scholar interested in understanding macromolecules and the role that these compounds could play in mitigating high cholesterol levels.

**Donor** Todd Whitcombe and others interested in supporting the bursary.

**Value** \$500 minimum

**Eligibility** Available to a full-time student with a declared major in science (chemistry preferred).

**Criteria** Academic proficiency and demonstrated financial need.

**Application Instructions** Complete the financial need section of the Awards application form.

**Established** 2003

## Sam Ketchum Memorial Scholarship

The Council of Forest Industries, Northern Operations Forest Education Programme established the Sam Ketchum Memorial Scholarship in order to assist top performing students who have completed their first year of study in Natural Resources Management (Forestry) program. The COFI northern education region encompasses the area from Valemount to Hazelton and Quesnel to Fort Nelson.

**Donor** Council of Forestry Industries, Northern Operations Forest Education Programme

**Value** \$1,000

**Number** One

**Eligibility** Available to a full time undergraduate student with a declared major in Natural Resources Management (Forestry) who has completed 30 credit hours. Preference will be given to a student who has not received this award previously.

**Criteria** Academic excellence.

**Conditions** No one may hold the Sam Ketchum Memorial Scholarship and the Phil Bodman Memorial Bursary at the same time. Students who have won this award may hold other awards up to a total value of \$5,000 in the same year.

**Established** 2007

## 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 or having transferred from a community college in northern BC. Preference will be given to a resident of northern British Columbia.

**Criteria** Academic excellence.

**Application Instructions** Complete the question regarding northern residency on your application form.

**Note** The College will review the applications and 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** \$1,000

**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.

**Application Instructions** Complete the financial need section of the application form.

**Note** The recipient of this award may be considered for selection for one additional year only.

**Endowed** 1996

## Awards and Financial Aid

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### Shaw Cablesystems G.P. Endowed Bursary

Reflecting on its origins as a family-run business, Shaw endeavours to respect and support the interests and values of the communities it serves. Shaw is committed to being a leader in the telecommunications industry, and they are proud to support a northern student in the field of Computer Science. With their broadband fiber optic network and their high speed internet service they could not think of a better idea to support.

**Donor** Shaw Cablesystems G.P.

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student who has a declared major in Computer Science. The recipient will be a resident of northern British Columbia.

**Criteria** Academic proficiency, financial need, and written submission.

**Application Instructions** Candidates must complete the financial need and residency sections of the awards application form and include a one page written summary on why he/she is deserving of the Shaw Cablesystems G.P. Endowed Bursary.

**Note** Recipients will be given preference for summer or co-operative education work terms with Shaw Cablesystems G.P.

**Endowed** 2001

### Sheila Bitschy BSW Memorial Bursary

The intent of this endowment is to support undergraduate students of UNBC who are enrolled in the Social Work program.

**Donor** Family, friends, and colleagues of Sheila Bitschy

**Value** \$750

**Number** One

**Eligibility** Available for a full-time student who has completed at least 60 credit hours towards a degree in the Social Work program. Preference will be given to a First Nations student.

**Criteria** Satisfactory academic standing and financial need.

**Application Instructions** Complete the financial need section of the application form.

**Endowed** 1996

### 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.

**Application Instructions** Complete the "study abroad" question on the application form.

**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.

**Application Instructions** Attach a letter outlining your career goals to your application form.

**Note** The Faculty will review the applications and nominate the recipient.

**Endowed** 1995

## Sophie Thomas Bursary

Sophie Thomas is a respected elder, teacher and traditional healer from the Saik'uz First Nation who has provided healing plant medicines to people in many parts of the world. Sophie believes that if we take care of the land, it will take care of us. It is Sophie's desire to protect the forest from activities that could threaten water supplies, traditional plants and wildlife. This bursary is intended for students that have a desire to study and protect the natural environment and/or promote the use of traditional medicines. Students should have an interest in the protection of traditional plant species found in the forests of BC.

**Donor** Sophie Thomas Foundation, Carrier Sekani Family Services and the Saik'uz First Nation

**Value** \$1,000

**Number** One

**Eligibility** Available to a full or part-time student who has completed at least 30 credit hours with an identified major in one of the following areas: Biology, Planning, Environmental Sciences, First Nations Studies or Natural Resources Management (Forestry, Wildlife & Fisheries).

**Criteria** Demonstrated financial need and academic proficiency.

**Application Instructions** Attach a letter outlining your career goals and how they relate to the protection, use and study of traditional plants. Complete the financial need section of the awards application form.

**Note** A committee consisting of representatives from the Sophie Thomas family, Saik'uz First Nation, UNBC, Carrier Sekani Family Services and the Carrier Sekani Tribal Council will recommend the recipient.

**Endowed** 2002

## Spectra Energy Corp Bursary

**Donor** Spectra Energy Corp (formerly Westcoast Energy Inc.)

**Value** \$1,250

**Number** Two

**Eligibility** Available to a full-time student who has completed at least 60 credit hours towards a degree program who is a resident of northern British Columbia. 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 also be given to a First Nations student.

**Criteria** Demonstrated Financial need.

**Application Instructions** Complete the financial need section of the application form and answer the questions regarding northern BC residency.

**Recipient Selection** Senate Committee on Scholarships and Bursaries on recommendation by the UNBC Awards Office.

**Endowed** 1995

## Spectra Energy Corp Scholarship

**Donor** Spectra Energy Corp (formerly Westcoast Energy Inc.)

**Value** \$2,500

**Number** Two

**Eligibility** Available to a full-time undergraduate student who has completed at least 60 credit hours towards a degree program who is a resident of northern British Columbia. 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 also be given to a student enrolled within the School of Business.

**Criteria** Academic Excellence

**Recipient Selection** Senate Committee on Scholarships and Bursaries on recommendation by the UNBC Awards Office.

**Endowed** 1994

## Spruce Credit Union – Denie Bachand Memorial Bursary

Denie Bachand was a long-standing Director of the Spruce Credit Union, Prince George. The Spruce Credit Union Board established this student bursary in honour and in recognition of Mr. Bachand's contributions to the Credit Union.

**Donor** Spruce Credit Union

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student with a declared major in Forestry. Preference will be given to a member of the Spruce Credit Union.

**Criteria** Academic proficiency and demonstrated financial need.

**Application Instructions** Complete the financial need section of the awards application form. If you are a member of the Spruce Credit Union, attach a statement confirming your membership.

**Note:** Student may apply for this bursary more than once.

**Established** 2002

## Awards and Financial Aid

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### Suncor Energy Foundation Environmental Engineering Scholarship

The Suncor Energy Foundation is a private charitable foundation fully funded by Suncor Energy Inc. to manage the company's community investments to Canadian charities. The Foundation is pleased to support education in scientific and technological fields, including the Environmental Engineering program at UNBC.

**Donor** Suncor Energy Foundation

**Value** \$2,500

**Number** One

**Eligibility** Available to a full-time first or second year student who is a resident of northern British Columbia enrolled in the Environmental Engineering program. Preference will be given to a First Nations student.

**Criteria** Academic excellence.

**Established** 2003

### TD Canada Trust Bursary

TD 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.

**Donor** TD Canada Trust

**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.

**Application Instructions** Complete the financial aid section of the application form.

**Established** 1999

### UNBC Chemistry Club Award for Excellence in Chemistry

The UNBC Chemistry Club established this Award in 2006 to celebrate the efforts of, and provide financial assistance to well-rounded individuals pursuing studies in Chemistry.

**Donor** UNBC Chemistry Club

**Value** \$500

**Number** One

**Eligibility** Available to a full or part time undergraduate student who has completed 60 credit hours and has declared one of the following majors: Chemistry; Chemistry/Computer Science; Chemistry/Mathematics; Chemistry/Physics, or; Biochemistry and Molecular Biology with a minor in Chemistry

**Criteria** Satisfactory academic standing, demonstrated financial need and volunteer and extracurricular activities

**Conditions** Students who have won this award may hold other awards up to a total value of \$1,000

**Application** Instructions Fill out all sections of the Awards Application form and attach a letter outlining your volunteer and extracurricular activities

**Recipient** Selection Senate Committee on Scholarships and Bursaries, on recommendation by the UNBC Awards Office

**Established** 2006

### UNBC In-Course Bursaries

**Value** \$1,200

**Number** Varies

**Eligibility** Available to full-time students enrolled in a degree program at UNBC.

**Criteria** Demonstrated financial need and satisfactory academic standing.

**Application Instructions** Complete the financial need section of the awards application form.

### UNBC In-Course Scholarships

**Value** \$1,300

**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.

Michael 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.

**Application Instructions** Attach a copy of your research abstract to your application form and complete the financial need section of the form.

**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

**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, Outdoor Recreation and Conservation Tourism, or Nature-Based Tourism Management. 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.

**Application Instructions** Submit two letters of references: one from an individual who is familiar with your academic background and one from an individual who is familiar with your work or volunteer background. You must also submit a short essay (not more than 500 words) stating your 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 secondary and post secondary levels for many years. This program is VPA's investment in today's youth and tomorrow's knowledgeable and professional work force.

**Donor** The Vancouver Port Authority

**Value** \$2,500

**Number** One

**Eligibility** Available to a full-time student who has completed at least 60 credit hours in one of the following: A Bachelor of Planning, a Bachelor of Science with a declared major in Environmental Sciences, or a Bachelor of Arts with a declared major in Environmental Studies.

**Criteria** Academic excellence

**Established** 1998

## Awards and Financial Aid

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### 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.

**Application Instructions** Attach a brief essay demonstrating your interest in the above subject area to your application and complete the financial need section of the application form.

**Note** The College will review the applications and nominate the recipients.

**Endowed** 1993

### West Fraser Bursary

West Fraser Ltd. 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** West Fraser Ltd.

**Value** \$2,500

**Number** Two

**Eligibility** Available to full-time students who are residents of 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.

**Application Instructions** Complete the financial need section of the application form.

**Endowed** 1999

### West Fraser Scholarship

**Donor** West Fraser Ltd.

**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.

**Application Instructions** Attach a letter outlining your career goals to your application form.

**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 College of Science and Management will review the applications and nominate the recipients.

**Endowed** 1995

### Weyerhaeuser Scholarship

**Donor** Weyerhaeuser Company 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.

**Application Instructions** Complete the question regarding BC residency on the application form.

**Note** The Faculty will review the applications and nominate the recipient.

**Endowed** 1994



## 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** \$2,000

**Number** Two, renewable at \$1,500

**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 proficiency and community involvement. Final selection will be made on the basis of superior academic achievement.

**Application Instructions** Complete the northern BC residency question on your application form, and submit a letter outlining your community involvement.

**Note** This scholarship is renewable at \$1,500 for up to one year, subject to the recipient maintaining satisfactory academic progress.

**Endowed** 1997

## Wilson King L.L.P. Scholarships

**Donor** Wilson King LLP

**Value** \$1,000

**Number** One

**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.

**Application Instructions** Complete the question regarding northern BC residency on your application form.

**Established** 1994

## 5. Open Awards

These awards may be available to all categories of students including: new post-secondary, transfer, in-course, and graduate.

### BC Hydro Bursary

BC Hydro is proud to support UNBC students in their commitment to and pursuit of postsecondary education. As part of their community outreach programs, BC Hydro focuses on the key areas of: environmental sustainability and stewardship, involvement in education, scholarships, aboriginal relations, and arts, cultural and community organizations.

**Donor** BC Hydro

**Value** \$500

**Number** One

**Eligibility** Available to a full or part time undergraduate student with a declared major in Planning (BPI). Preference will be given to a First Nations Student.

**Criteria** Demonstrated financial need and academic proficiency.

**Conditions** No one is able to receive this award more than once.

**Recipient Selection** Senate Committee on Scholarships and Bursaries, on recommendation by the Awards Officer.

**Endowed** 2005

### 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.

**Application Instructions** Provide name of active sorority member, sorority chapter and location and complete the financial need section of the application form.

**Endowed** 1995

## Awards and Financial Aid

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### 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.

**Application Instructions** Attach your project or program proposal to your application form.

**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.

**Endowed** 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.

**Application Instructions** Complete the financial need section of the application form.

**Established** 1999

### Brownridge Athletic Bursary

Established in recognition of the importance of UNBC athletics and to assist varsity student athletes in their pursuit 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 and UNBC

**Value** \$5,000

**Number** One

**Eligibility** Available to a full time undergraduate student who is a member of the Men's Varsity Basketball Team.

**Criteria** Demonstrated financial need and Academic proficiency. Successful applicants may receive this award more than once.

**Conditions** Recipients must be a current member of a UNBC Men's Varsity Basketball Team.

**Application Instructions** Fill out all sections of the Awards Application form.

**Established** 2007

### Brownridge & Company Insurance Services Inc. Annual Athletic Bursaries

Established in recognition of the importance of UNBC athletics and to assist varsity student athletes in their pursuit 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** Brownridge & Company Insurance Services Inc. and UNBC

**Value** \$2,000 each plus full tuition waivers

**Number** Four—Varsity Athletic Awards as follows:

- One Men's Varsity Basketball Team student athlete
- One Women's Varsity Basketball Team student athlete
- One Men's Varsity Soccer Team student athlete
- One Women's Varsity Soccer Team student athlete

**Eligibility** Available to a full time undergraduate student who is a member of the varsity athletics teams as outlined above.

**Criteria** Demonstrated financial need and Academic proficiency. Successful applicants may receive this award more than once.

**Conditions** Recipients must be a current member of a UNBC Varsity Basketball or Soccer Team.

**Application Instructions** Fill out all sections of the Awards Application form.

**Established** 2007

## Bruce and Pat Murdoch Bursary

Pat (born and raised in Prince George) and Bruce (resident since 1950) Murdoch raised four girls, all of whom graduated from PGSS. All four girls continued on to post-secondary challenges with the assistance of scholarships and bursaries for academic and athletic achievements. Pat & Bruce feel strongly that academics and athletics are both instrumental in developing well rounded citizens and have established two bursaries to recognize female athletes accepting that challenge at UNBC.

**Donor** Bruce and Pat Murdoch

**Value** \$500

**Number** Two

**Eligibility** Available to a female varsity basketball player at UNBC.

**Criteria** Academic proficiency and demonstrated financial need.

**Application Instructions** The varsity women's basketball coach nominates the recipients for these awards.

**Established** 2002

## Bruno Raeber Student Award

Bruno Raeber was UNBC's premier Receptionist from 1992-2004. His sense of humour and good natured character touched the lives of everyone at UNBC. This award has been established by the University community as a tribute to Bruno.

**Donor** University community, Chaired by Bethany Haffner

**Value** \$500

**Number** One

**Eligibility** Available to a full or part-time student enrolled in any program of study at UNBC who is a resident of Northern British Columbia. Preference will be given to a student with a disability.

**Criteria** Satisfactory Academic Standing and community involvement

**Application Requirements** Candidates must submit a one-page letter outlining their community involvement.

**Conditions** Student unable to receive more than once

**Established** 2004

## Can West Global Communications Scholarship

Can West Global Communications Corp. is an international media company. Can West, Canada's largest publisher of daily newspapers, owns, operates and/or holds substantial interests in newspapers, conventional television, out of home advertising, specialty cable channels, radio networks and Internet portals in Canada, New Zealand, Australia, Ireland and the United Kingdom. Fireworks, the company's program production and distribution division, operates in several countries throughout the world.

In addition to its corporate success, Can West has developed a reputation for outstanding community support. Funding provided to create the new Can West Global Communications Scholarship and Bursary at the University of Northern British Columbia demonstrates the company's commitment to the advancement of communications studies in BC institutions.

**Donor** Can West Global Foundation

**Value** \$2,500

**Number** One

**Eligibility** Available to a full-time student with a declared major in northern-specific social science programs (Anthropology, Economics, First Nations Studies, History, International Studies, Northern Studies, Political Science, Women's Studies, Psychology). Preference will be given to First Nations Students and students expressing interest in careers, or pursuing further studies in broadcasting or electronic communications.

**Criteria** Financial need and satisfactory academic standing

**Endowed** 2001

## Celena John Bursary

Celena John, a respected Elder of the Saik'uz First Nation, was a founding member of Carrier Sekani Family Services, and Elder advisor for the Carrier Sekani Tribal council and elected member of Chief and Council at Saik'uz First Nations. Her commitment to social justice for Aboriginal people was outstanding and recognized across Canada, including the Royal Commission on Aboriginal People. This bursary is intended for students that are pursuing their studies with a view to addressing social justice for Aboriginal people.

**Donor** Carrier Sekani Family Services, Saik'uz First Nation, University of Northern British Columbia.

**Value** \$1,000

**Number** One

**Eligibility** Available to a full or part-time student, with preference to full-time aboriginal and/or Carrier students.

**Criteria** Demonstrated financial need and satisfactory academic standing.

## Awards and Financial Aid

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**Application Instructions** Attach a letter outlining your career goals and how they relate to social justice for Aboriginal peoples in Canada, North America or worldwide. Complete the financial need section of the awards application form.

**Note:** The recipient will be recommended by a committee consisting of representatives from family, Saik-'uz First Nation, UNBC, Carrier Sekani Family Services, and the Carrier Tribal Council.

**Endowed** 2002

### Chamber of Commerce Anniversary Awards

These awards are provided by the Prince George Chamber of Commerce, the voice of business in the community, in order to recognize businesses who have achieved 50 years of continuous membership with the Prince George Chamber of Commerce. The Chamber will recognize 50 year members within its membership through the Chamber Anniversary. For 2007, the Chamber is recognizing the Golden Anniversary memberships of the Jim Pattison Broadcast Group and The Prince George Citizen.

**Donor** The Prince George Chamber of Commerce, with possible matching support from Golden Anniversary Chamber members.

**Value** \$500 - \$1000

**Number** Varies according to the number of businesses celebrating Golden Anniversary memberships in that year, if any.

**Eligibility** Available to a full time undergraduate student with a declared major in the School of Business who has completed 60 credit hours, or to a full time graduate student enrolled in the second year of the MBA program. Preference will be given to a resident of Prince George.

**Criteria** Academic excellence

**Conditions** For promotional purposes, the Chamber Anniversary Award recipients will attend and be presented with their scholarship at either the annual Prince George Chamber of Commerce Golf Tournament or the Prince George Chamber of Commerce Annual Membership Recognition Luncheon.

**Note** Award recipients will have service learning opportunities with the Prince George Chamber of Commerce in the year that the scholarship is awarded. Details of these service learning opportunities are to be determined by the Chamber of Commerce in discussion with the student recipient. Member organizations may be involved where applicable.

**Established** 2007

### Chris Winther Memorial Scholarship

Chris Winther was a long-time Prince George resident supportive of the local forest industry and devoted to his family. His keen community spirit and positive attitude earned him the reputation of being a dependable, respected businessman and one of the pioneers of a very prosperous and prominent industry. A strong belief in the importance of education and individualism were cornerstones in Chris' way of thinking. He thoroughly enjoyed young people and had the utmost respect and encouragement for those willing to strike out on their own, just as he once had done. Chris demonstrated a true love of life and a unique entrepreneurial spirit to all who knew him. This legacy has been created to carry forward his spirit.

**Donor** Family and Friends

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student who is a resident of Prince George by virtue of birth or continuous dwelling within the defined area for the four years immediately prior to admission at UNBC.

**Criteria** Academic proficiency

**Application Instructions** Complete the residency section of the awards application for and submit a brief essay outlining your career plans that reasonably demonstrate your desire to stay in Prince George following graduation and your entrepreneurial spirit.

**Endowed** 2001

### Cloverdale Paint Bursary

Cloverdale Paint is a private western Canadian company that started in Surrey, BC in 1933. The company has grown steadily, opening branches and their Prince George location in 1986. They now operate from Manitoba, Saskatchewan, Alberta, BC and Washington State. The owners and employees are proud to support scholarships in many universities and colleges in western Canada.

**Donor** Cloverdale Paint Inc.

**Value** \$600

**Number** One

**Eligibility** Available to a full-time student who is a resident of British Columbia or Alberta. Preference will be given to students related to employees of Cloverdale Paint.

**Criteria** Satisfactory academic standing, demonstrated financial need and commitment to community service, and career and/or entrepreneurial objectives.

**Application Instructions** Complete the financial need and residency sections of the awards application form. Attach a letter outlining your commitment to community service or career objectives. If you are related to a Cloverdale Paint employee, attach a statement indicating the name of the employee and his/her relationship to you.

**Established** 2001

## Computer Science Entrance Award

This award has been established to encourage and support talented students entering or transferring to undergraduate studies in Computer Science at UNBC.

**Donor** UNBC Computer Science Program

**Value** \$1,000

**Number** Up to Ten

**Eligibility** Available to full or part time undergraduate students entering their first or second year level of studies in Computer Science at UNBC, or transferring from another post-secondary institution into Computer Science at UNBC at any level of undergraduate studies.

**Criteria** Academic Proficiency and with courses in mathematics and/or computer science

**Conditions** The student must officially declare Computer Science as major. Course enrollment for the year in which the award is held must be approved by the Chair of Computer Science or designate. The award can be held only once.

**Application Instructions** Attach a letter outlining your experience, interest and performance in mathematics and/or computer science to the Awards Application. Photocopies of any awards achieved may be attached.

**Recipient Selection** The Senate Committee on Scholarships and Bursaries, on recommendation of the Computer Science Program. Subject to Available Funding.

**Established** 2007

## 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.

**Application Instructions** Attach a letter outlining your community/volunteer service in the Prince George community to your application form.

**Note** Subject to passing grades, the same student may apply for this award more than once.

**Endowed** 1999

## CUPE Local 3799 Annual Bursary

CUPE Local 3799 represents the majority of non-faculty employees at the University of Northern British Columbia. CUPE is pleased to establish this bursary to assist in supporting the educational goals of a student.

**Donor** CUPE Local 3799

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student who is a resident of northern British Columbia. Preference will be given to a relative of a CUPE member (e.g. son, daughter, spouse, sister, brother, parent, niece, nephew). In the event that there is no suitable candidate who is a relative of a CUPE member, the applicant will be a relative of any other unionized member.

**Criteria** Demonstrated financial need and academic proficiency.

**Application Instructions** Applicants must provide a letter signed by the CUPE Local or other registered Union President noting the relationship of their member to the applicant, and complete the financial need section of the awards application communications.

## 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** \$250.00

**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.

**Application Instructions** Attach a letter to your application form which addresses the above criteria.

**Note** The selection committee will consist of a UNBC First Nations program faculty member, a member of the Senate Committee on First Nations and Aboriginal Peoples, and a designate of the extended family of the late Daphne Anderson.

**Endowed** 1998

## Awards and Financial Aid

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### David Hoy Memorial Annual Scholarship

David Hoy began his career as a logger in the Fort St. James area when at the age of twenty he started his operations under the company name Tsayta Contracting Ltd. From there the number of companies has grown to sixteen or more. He was a very dynamic individual who was far ahead of his years. He died in a crash on August 5, 1998 while flying his helicopter and cruising timber in the Fort St. James area. He leaves behind three children, two sons and one daughter. His two sons are currently studying to be Registered Professional Foresters and they will likely follow their Dad's footsteps. The companies David was involved with along with his two partners, Ken Rasmussen and Keith Playfair, employed the largest number of individuals in the area except for the mills. David was an excellent businessman with a big heart who helped almost everyone he touched in some manner or other. He was highly respected by his business associates and loved very much by his family.

**Donor** The staff at Deloitte & Touche LLP, Chartered Accountants

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student from the Fort St. James area who is enrolled in the Forestry program.. Second preference will be given to a student enrolled in the Forestry Program who has indicated that he/she will continue to pursue studies to become a Registered Professional Forester.

**Criteria** Academic proficiency.

**Application Instructions** Complete the questions regarding residency/home town on the awards application form.

**Note** In the event that there are no applicants from the Fort St. James area, the award may be given to a student who is from an outlying community e.g. Vanderhoof, Fort Fraser, Fraser Lake, Burns Lake. Student eligible to receive more than once depending on maintaining satisfactory academic proficiency and meet the requirements above.

**Established** 2000

### David Hoy Memorial Scholarships

David Hoy began his career as a logger in the Fort St. James area when at the age of twenty he started his operations under the company name Tsayta Contracting Ltd. From there the number of companies has grown to sixteen or more. He was a very dynamic individual who was far ahead of his years. He died in a crash on August 5, 1998 while flying his helicopter and cruising timber in the Fort St. James area. He leaves behind three children, two sons and one daughter. His two sons are currently studying to be Registered Professional Foresters and they will likely follow their Dad's footsteps. The companies David was involved with along with his two partners, Ken Rasmussen and Keith Playfair, employed the largest number of individuals in the area except for the mills. David was an excellent businessman with a big heart who helped almost everyone he touched in some manner or other. He was highly respected by his business associates and loved very much by his family.

**Donor** Mrs. Lori Hoy

**Value** \$1,000

**Number** Two

**Eligibility** Available to a full-time student. One scholarship will be awarded to a student from the Fort St. James area who is enrolled in the Forestry program. The second scholarship will be awarded to any student enrolled in the Forestry program who has indicated that she/he will continue to pursue her/his studies to become a registered Professional Forester.

**Criteria** Satisfactory academic standing.

**Application Instructions** Attach a letter outlining your career goals to your application form.

**Note** In the event that there are no applicants from the Fort St. James area, the award will be given, at the discretion of the University, to a student who is from an outlying community (e.g. Vanderhoof, Fort Fraser, Burns Lake).

**Endowed** 2000

### Don and Pat Cozzetto Women's Athletic Scholarships

Don and Par Cozzetto recognize the importance of varsity athletics to UNBC. In recognition of Dr. Cozzetto's Installation as UNBC President, the Cozzetto's are pleased to establish this endowed award.

**Donor** Don and Pat Cozzetto and UNBC

**Value** \$1,000

**Number** Two

**Eligibility** Available to a full-time undergraduate student who is a member of a Varsity Women's Athletics Team.

**Criteria** Academic proficiency

**Note** Successful applicants may receive this award more than once.

**Endowed** 2007

## Doug Floyd Memorial Scholarships

Harold Douglas Floyd was born in 1932 in Meadow Lake, Saskatchewan and began his career with West Fraser in 1952. Throughout his career he worked in nearly every area of the company employing a unique mix of humility, leadership, and respect for employees, traits which have defined West Fraser's culture since Doug retired in 1987 in the role of Chief Operating Officer. Until his sudden death at the age of 59, Doug remained close with the community of Quesnel. With a strong personal code of ethics, which included the values of honor, fair play and loyalty, Doug became an inspiring leader who made work and life more fun for everyone around him. In memory of Doug's tremendous contribution to the company and his close friendship with the shareholders and employees, West Fraser is proud to establish a UNBC scholarship fund in his name.

**Donor** West Fraser Timber Co. Ltd.

**Value** \$2,500

**Number** Two

**Eligibility** Available to full-time students enrolled in an undergraduate degree program at UNBC. Preference will be given to students who are residents of Quesnel School District #28. Second preference will be given to students who are residents of northern British Columbia.

**Criteria** Academic proficiency.

**Application Instructions** Answer the question regarding northern BC residency on your application form.

**Endowed** 1993

## Dr. Mary John Bursary

Dr. Mary John is a highly regarded and respected Carrier Elder and leader. The great granddaughter of Mary Quaw (six Mile Mary), Dr. Mary John has been instrumental in revitalizing Carrier culture and language as an instructor and member of the Yinka Dene Language Institute. Her achievements toward pursuing social and economic justice for Aboriginal people as an advisor and advocate have spanned issues related to policing, child welfare, education and forestry. She is a founding member of the Saik'uz Elders Society and a significant contributor to the publications *Stoney Creek Women* (a work about her life) and *Judgement at Stoney Creek*. This award is intended to be a tribute to the tireless contributions that Dr. Mary John has made toward the advancement of Aboriginal peoples.

Dr. Mary John is also the recipient of an honorary degree from the University of Northern British Columbia.

**Donor** Carrier Sekani Family Services, Carrier Sekani Tribal Council, Saik'uz First Nation, UNBC.

**Value** \$1,000

**Number** One

**Eligibility** Available to a full or part-time student enrolled in the College of Arts, Social and Health Sciences. The recipient will be a resident of northern British Columbia. Preference will be given to a Carrier First Nations student.

**Criteria** Demonstrated financial need and academic proficiency.

**Application Instructions** Attach a letter explaining your reasons for applying and articulate your education and career goals.

**Note** A committee consisting of representatives from family, UNBC, and Carrier Sekani First Nations will recommend the recipient.

**Endowed** 2002

## 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.

**Application Instructions** Attach a letter outlining your career goals and complete the financial need section of the application form.

**Endowed** 1999

## Eleanor (Elly) Alaska-Lee Johnsen Foundation Scholarship

In 2006, Elly established a personal foundation with the primary goal in mind to provide funds for UNBC athletes in order to assist him in pursuit of their academic, athletics and life goals. Born and raised in Prince George, Elly has gone on to establish a successful investment and financial planning practice, and she recognizes how instrumental both academics and athletics are in her life. She believes that while perfect grades in education are commendable, that a strong work ethic, outstanding leadership skills, commitment to one's community, and an inner drive to succeed and achieve one's goals are truly admirable and ultimately the keys to a successful future.

**Donor** Eleanor (Elly) Alaska-Lee Johnsen Foundation

**Value** \$2,500

**Number** Ten

**Eligibility** Available to a full-time undergraduate student who is a member of the Varsity Women's Basketball Team. Preference will be given to a student pursuing a degree in science or business.

**Criteria** Satisfactory academic standing, athletic leadership and clearly defined life goals and objectives.

## Awards and Financial Aid

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**Note** Successful applicants may receive this award more than once.

**Conditions** Students must be a member of the Varsity Women's Basketball Team.

**Application** Instructions Candidates must submit a letter detailing their education, career and life goals, and why they believe they deserve the scholarship to the Coach of the Varsity Women's Basketball Team.

**Established** 2006

### 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.

**Application Instructions** Attach a letter outlining your leadership/ community service experience and complete the financial need section of the application form.

**Endowed** 1995

### Golden Key UNBC Leadership Incentive Scholarship

The intention of the Leadership Incentive Scholarship is to encourage UNBC students to apply for the Golden Key International awards. Currently, UNBC is the only BC university whose students have not received any of the international scholarships. As an incentive to apply for these awards, the amount of an award won will be matched by UNBC, up to \$2,000.

**Value** Up to \$2,000

**Number** Two (one each for the College of Science & Management and for the College of Arts, Social, & Health Sciences)

**Eligibility** Available to a student who is enrolled at UNBC and who is a member of the UNBC chapter of the Golden Key International Honour Society. The students must have submitted an application for one of GK International's awards for individual students (i.e. chapter awards are not applicable). If a student applies for a GK scholarship but does not win it, their application will be considered for a supplementary \$500 UNBC award. Their eligibility for this award will be based upon their leadership, community service, GK service, and the criteria set forth by the original GK scholarship. If a student wins one of the eligible GK scholarships, it will be matched, up to \$2,000. If deemed necessary, it will be adjudicated according to the same criteria as the supplementary award.

**Criteria** A copy of the student's application for the GK International award, plus demonstrated leadership and community service.

**Application Instructions** Submit a copy of the application package sent to Golden Key, and if not demonstrated in the GK application, submit a one-page essay showing your leadership, community service, and Golden Key service.

**Conditions** Eligible GK awards are only those for individuals and whose application deadlines fall on March 1 of the application year, or in the twelve months prior to March 1. Awards with deadlines after March 1 will be eligible for considerations at UNBC the following year.

**Note** If the announcement date of an eligible award falls after the announcement date of the UNBC awards, the award will be matched retroactively (less any supplementary award the students received from UNBC).

**Established** 2007



## Gorton Family Bursary

Louise Gorton established the Gorton Family Bursary in honour of her grandmother, Doris Gorton, and father, Ron Gorton. The family believes that financial barriers should not stand in the way of achieving a university degree. This award honours outstanding UNBC students pursuing careers in the field of education.

**Donor** Louise Gorton

**Value** \$1,250

**Number** One

**Eligibility** Available to a full-time undergraduate student who is enrolled in the Bachelor of Education program. Preference will be given to a resident of Northern British Columbia and who has graduated from School District #57.

**Criteria** Demonstrated financial need and academic proficiency.

**Conditions** No student may receive the Gorton Family Scholarship and the Gorton Family Bursary during the same academic year.

**Application** Instructions Fill out the financial need and voluntary information sections of the Awards Application form.

**Endowed** 2006

## Gorton Family Scholarship

Louise Gorton established the Gorton Family Scholarship in honour of her grandmother, Doris Gorton, and father, Ron Gorton. The family believes that financial barriers should not stand in the way of achieving a university degree. This awards honours outstanding UNBC students pursuing careers in the fields of education.

**Donor** Louise Gorton

**Value** \$1,250

**Number** One

**Eligibility** Available to a full time undergraduate student who is enrolled in the Bachelor of Education program. Preference will be given to a resident of Northern British Columbia and who has graduated from School District #57.

**Criteria** Academic Excellence.

**Conditions** No student may receive the Gorton Family Scholarship and the Gorton Family Bursary during the same academic year.

**Endowed** 2001

## Husky Energy Varsity Basketball Awards

Husky Energy is proud to support UNBC Athletics in the pursuit of excellence on and off the court. Husky Energy recognizes the commitment and dedication required to be a student athlete, leader and role model in our community.

**Donor** Husky Energy

**Value** \$1,000

**Number** Two

**Eligibility** Available to a full-time undergraduate student who is a member of the UNBC Men's or Women's Varsity Basketball Team. Preference will be given to a resident of Northern British Columbia. One award will be awarded to a male student athlete and one award will be awarded to a female student athlete.

**Criteria** Academic Proficiency.

**Conditions** Students must be a member of the Men's or Women's Varsity Basketball Teams.

**Note** Successful applicants may receive this award more than once.

**Recipient Selection** Senate Committee on Scholarships and Bursaries, on the recommendation of the respective coaches of the Men's and Women's Varsity Basketball Teams.

**Established** 2005

## Inder Madhok Bursary

Inder Madhok was the Executive Director for the Prince George Activator Society and in his thirty-years of service was an advocate, advisor, mentor and skilled communicator with and for Activator clients. Inder was always there to listen and discuss both problems and issues that affected residents, and quick to respond with a personal anecdote, joke, or serious philosophical comment as the situation warranted. He had a positive and permanent effect on all who were fortunate enough to spend time with him. Colleagues at the Activators Society have established this award in his name to support a student who is working to become a counsellor.

**Donor** The Prince George Activators Society

**Value** \$1,000

**Number** One

**Eligibility** Available to a full or part time undergraduate or graduate student pursuing a degree which will qualify them to become a counsellor

**Criteria** Demonstrated financial need

**Note** Successful applicants may apply for and receive this award more than once.

**Application Instructions** Fill out the financial need sections of the awards application form and attach a letter outlining your community service, academic and career goals related to counselling.

**Established** 2006

## Awards and Financial Aid

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### 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 Ltd.

**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.

**Application Instructions** Complete the financial need section of the application form and answer the question regarding northern BC residency.

**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.

**Application Instructions** Attach a letter outlining your community involvement and complete the financial need section of the application form.

**Conditions** Tenable upon confirmation of enrollment in the Women's Studies program at UNBC in the semester immediately following the granting of the award.

**Endowed** 1993

### Jordy Hoover Varsity Bursary

Born and raised in Prince George, Jordy Hoover feels strongly in supporting athletics and academics at UNBC. A local entrepreneur, Jordy established these bursaries to recognize female varsity basketball players who are pursuing their post secondary education in the field of business.

**Donor** Jordy Hoover

**Value** \$1,000

**Number** Two

**Eligibility** Available to a full time undergraduate or graduate student who is a member of the Varsity Women's Basketball Team.

**Criteria** Demonstrated financial need and satisfactory academic standing

**Note** Successful applicants may receive this award more than once.

**Conditions** Students must be a member of the Varsity Women's Basketball Team.

**Established** 2007

**Recipient selection** Senate Committee on Scholarships and Bursaries on the recommendation of the Athletics Coordinator (on behalf of the Coach of the Varsity Women's Basketball Team) and verification by the UNBC Awards Office

### Knights of Columbus Council #8927 Bursary

The Knights of Columbus Council #8927 annually donate one \$500 bursary to a full-time University student in any program of study.

**Donor** Knights of Columbus Council #8927 Sacred Heart

**Value** \$500

**Number** One

**Eligibility** Available to a full-time student enrolled in a UNBC program.

**Criteria** Satisfactory academic standing and demonstrated financial need.

**Application Instructions** Complete the financial need section of the awards application form.

**Established** 2001

## Louis & Irene Monasch and Family Bursary

Louis B. Monasch had degrees in both Electrical Engineering and Education. His final position before retirement was the Administrator of King Edward Campus of Vancouver Community College. His wife Irene had many years of teaching music and they both shared an interest in supporting youth through Scouts, Job's Daughters and DeMolay. They often discussed the need for higher education in the northern parts of British Columbia and recognized how challenging change of culture and the distance from family support was for young people moving to larger communities to further their education. 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.

**Application Instructions** Complete the financial need section of the application form.

**Endowed** 1997

## Mary E. Affleck Memorial Award

Mary Affleck was a mother, schoolteacher, and church and volunteer worker in Prince George in the 1960's, 1970's and early 1980's. She strongly believed that a good education is a wise investment which gives one knowledge, tolerance, self-confidence, the opportunity for a successful and interesting career, and most important, makes one better able to contribute to the betterment of society overall.

**Donor** Robert E. Affleck, Robert A.N. Affleck, Susan E. Affleck, C. Lynne Affleck

**Value** \$2,000

**Number** One

**Eligibility** Available to a full-time female undergraduate student who is working towards a degree in teaching or library science. If there are no candidates who indicate a career choice in teaching or library science, preference will be given to a student working toward a Bachelor of Arts degree.

**Criteria** Academic proficiency, demonstrated financial need, and documented community involvement as a volunteer.

**Application Instructions** Attach a letter outlining your career goals and volunteer service. Complete the financial need section of the application form.

**Endowed** 2000

## Marion and Lawrence deGrace Scholarship

Marion deGrace, along with her late husband Lawrence deGrace of Prince George, has held a tradition of community involvement in Prince George. Lawrence's commitment to Prince George extends from his founding of Industrial Forestry Services (IFS) in 1952, an entirely Canadian-owned forestry company, currently employing approximately 70 employees. IFS's growth has paralleled that of the British Columbia interior forest industry. Clientele consist of forest industry companies, federal, provincial and municipal governments, other resource industries, First Nations bands and private landowners.

**Donor** Marion deGrace

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student who is a resident of northern British Columbia. The recipient will be enrolled in the Bachelor of Education program. Second preference will be given to a candidate enrolled in the Nursing program who has expressed a desire to go in to Public Health.

**Criteria** Academic proficiency

**Application Instructions** Attach a letter outlining your academic and career plans.

**Note:** No student may receive this award more than once.

**Endowed** 2000

## 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

**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

**Application Instructions** Attach a letter outlining your community service to you application form.

**Endowed** 1999

## Awards and Financial Aid

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### Michael Strel Memorial Bursary

This bursary has been established in celebration of the life of Michael (Mike) Richard Strel. Mike's three years at UNBC, pursuing a double major in Mathematics and Physics, were a time of personal growth and fulfillment. His fascination with these subjects blossomed and he was excited about the possibility of a related career in teaching and research. In his personal life, of 21 years, Mike was known for his big smile and unique sense of humour, his deep love of family and close friends, his passion for mountaineering, his appreciation of classical music and his enthusiasm for learning to fly. This award is intended to carry forward the spirit of quiet determination and joy with which he lived his life.

**Donor** The Strel Family

**Value** \$3,500

**Number** One

**Eligibility** Available to a full-time undergraduate or graduate student with a declared major in Math and/or Physics. Preference will be given to an undergraduate student.

**Criteria** Demonstrated financial need and satisfactory academic standing.

**Application Instructions** Complete the financial need and voluntary information sections of the application form and attach a brief outline of your extracurricular activities..

**Note** Recipients are eligible to receive this award more than once.

**Recipient Selection** Senate Committee on Scholarships and Bursaries, on recommendation by the Awards Officer.

**Established** 2005

### Minerva Foundation Award

The Minerva Foundation for BC Women creates opportunities for women throughout BC to realize their economic and leadership potential through innovative donor and community partnerships and entrepreneurial strategies that stimulate philanthropy. The purpose of the Minerva Foundation Award is: to assist single mothers in advancing their education, to retrain mature women returning to the workforce after a long absence, to advance women in non-traditional fields of study, and to assist immigrant and aboriginal women and women with disabilities to overcome educational barriers.

**Donor** The Minerva Foundation

**Value** \$10,000

**Number** One

**Eligibility** Available to a full-time undergraduate or graduate student enrolled in any program at the University of Northern British Columbia. Preference will be given to: a single mother, a woman with disabilities, a First Nations Woman, a woman who is an immigrant to Canada and/or a mature woman returning to the workforce after a long absence.

**Criteria** Demonstrated financial need and academic proficiency.

**Application Instructions** Complete the financial need and voluntary information sections of the awards application and attach a letter outlining how you meet the eligibility requirements for this award.

**Note:** In the event that two or more applicants are equally qualified, preference will be given to the candidate with the highest academic standing.

**Established** 2001 (renewed 2005)

### Mr. and Mrs. Jagir Grewal Athletic Bursary

Mr. And Mrs. Jagir Grewal came to Prince George from India in 1977. Ever since, the Grewal family have been strong supporters in the local community and appreciate the value of varsity sports as part of a university education. Mr. and Mrs. Grewal are proud to help UNBC athletes pursue their academic and athletic goals.

**Donor** Mr. and Mrs. Grewal

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student. Preference will be given to a resident of northern British Columbia who is a varsity athlete.

**Criteria** Academic proficiency and demonstrated financial need.

**Note:** The recipient will be nominated by his/her coach.

**Established** 2002

### Multicultural Heritage Society of Prince George Endowed Bursary

The Multicultural Heritage Society of Prince George was formed in 1974 as an umbrella organization for multicultural groups in Prince George and surrounding areas. With this endowment we hope to promote cross cultural awareness and an understanding of heritage and identity through education.

**Donor** The Multicultural Heritage Society of Prince George

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student. This award is open to students currently enrolled in School District #57, the College of New Caledonia, or UNBC. Preference will be given to students who demonstrate involvement in school, community or non-profit societies through volunteer work.

**Criteria** Satisfactory academic standing.

**Conditions** The award must be used within one year of acceptance to UNBC.

**Application Instructions** Submit a 500 word essay on one of the following topics: a) how are the many cultures in this society of value to our community?; b) What should society do to counter racism?; c) How can you as an individual contribute? Submit at least one letter of reference outlining your community involvement and complete the financial need section of the awards application form.

**Note** Recipients are able to receive award in future years depending on maintaining satisfactory academic performance.

**Endowed** November 2002

## 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.

**Criteria** Demonstrated financial need. Final selection will be made on the basis of greatest financial need.

**Application Instructions** Complete the financial need section of the application form and answer the question regarding northern BC residency.

**Endowed** 1998

## Nora Jean Garland Bursary

Nora Jean Garland is a long time resident of Prince George, graduating from Prince George Senior Secondary. She is a strong supporter of female athletes striving to combine academic success with athletic success. This bursary has been established to help a female student athlete succeed with an academic/athletic workload.

**Donor** Nora Jean Garland

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student, preferably a female varsity basketball player.

**Criteria** Academic proficiency and demonstrated financial need.

**Note:** The UNBC varsity women's basketball coach will nominate the recipient.

**Established** 2002

## Northern Hoops Memorial Bursary

Chris Nevoral and Lorilyn Murdoch established this award in memory of Victor Nevoral. Chris and Lorilyn both grew up and played basketball in the north and would like to encourage student athletes to follow their dreams. They would like to reward the hard work and dedication that is required to combine academics and basketball at the varsity level.

**Donor** Chris Nevoral and Lorilyn Murdoch

**Value** \$500

**Number** One

**Eligibility** Available to a full-time undergraduate or graduate student who is a member of the Varsity Women's Basketball Team.

**Criteria** Demonstrated Financial Need and Satisfactory Academic Standing.

**Note** Successful applicants may receive this award more than once.

**Conditions** Student must be a member of the Varsity Women's Basketball Team.

**Established** 2006

## Northern Trust Bursary

Northern Trust was established in 2004 to be a catalyst for Northern BC to grow a strong diversified economy by stimulating sustainable growth. Northern Trust has established this bursary to encourage future entrepreneurs from Northern Trust communities who are committed to contributing to the future of those regions, and are experiencing financial need during their postsecondary studies.

**Donor** Northern Development Initiative Trust

**Value** \$2,000

**Number** One

**Eligibility** Available to a full time undergraduate or graduate student enrolled in any program of study who is a resident of a community within the regions of the Northern Development Initiative Trust.

**Criteria** Demonstrated financial need and Academic proficiency.

**Note** In the event that two or more applicants are equally qualified, preference will be given to the candidate with the letter which best demonstrates the impact and significance of your community involvement.

**Application Instructions** Fill out all sections of the Awards Application form and attach a 300-500 word submission outlining how your community involvement and future plans fit with the vision, mission and mandate of the Northern Trust, which can be found at [www.nditrust.ca](http://www.nditrust.ca).

**Conditions** Recipients of this award must be a resident of a community within the regions of the Northern Development Initiative Trust.

**Established** 2007

## Awards and Financial Aid

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### Pepsi Annual Athletic Awards

The Pepsi Bottling Group is the world's largest manufacturer, seller and distributor of Pepsi-cola beverages—some of the world's most recognized consumer brands. PBG is a publicly traded company that generates nearly \$8 billion in annual sales. It operates in the US, Canada, Spain, Greece, and Russia, accounting for about one third of the Pepsi-cola volume in the world, and employs 38,700 people worldwide. As part of PBG's continuing support of UNBC, support has been directed toward the Athletics Department.

**Donor** Pepsi Bottling Group

**Value** 1,750

**Number** Two

**Eligibility** Available to full-time students enrolled in any degree program at UNBC who are active participants in the varsity athletic program. One award will be given to a female student and one to a male student each year.

**Criteria** Academic proficiency

**Application Instructions** Candidates will be nominated by their coach.

**Established** 2000

### Peter Bentley Athletic Scholarships

The Peter Bentley Athletic Scholarship endowment was established in honour of Mr. Bentley, who served as Chancellor of UNBC from May 2004 through May 2007. Peter has been an avid supporter of athletics throughout his life and is an accomplished athlete himself having been inducted into the British Columbia Sports Hall of Fame in 1999. Proceeds from the endowment are to be equally divided between Men's and Women's athletics.

**Donor** Friends and Family of Peter Bentley

**Value** Up to a maximum of full tuition and fees

**Number** Varies

**Eligibility** Available to a full time undergraduate student who is a member of a Men's or Women's Varsity Athletics Team.

**Criteria** Academic proficiency

**Conditions** Recipients must be a current member of a UNBC Varsity Athletics Team.

**Note** Successful applicants may receive this award more than once.

**Application Instructions** Fill out all sections of the Awards Application form.

**Endowed** 2008

### 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.

**Application Instructions** Complete the financial need section of the application form.

**Endowed** 1998

### President's Leadership Award

The President's Leadership Award has been created to foster the leadership skills that can be attained through involvement in the Golden Key International Honour Society, as well as to assist in sustaining the Golden Key UNBC chapter executive. This award will cover the cost of sending two Golden Key students to the Golden Key International Conference in Atlanta, Georgia in 2007 and New Orleans, Louisiana in 2008.

**Value** Approximately \$1500. The value of the award will cover the registration, transportation, and lodging costs obtained while attending the International Conference of the Golden Key International Honour Society.

**Number** Two

**Eligibility** Available to students enrolled at UNBC who are also active members of the UNBC chapter of the Golden Key International Honour Society. They may be executive or general members. Preference will be given to candidates who show strong leadership skills in Golden Key UNBC and in their community, and who demonstrate the greatest desire to contribute to the UNBC chapter in the year following the conference. Members may apply even if they have already attended a past International Conference.

**Criteria** Students must be active members of Golden Key UNBC and have demonstrated leadership skills, community involvement, and a desire to contribute to Golden Key UNBC in the year following the conference.

**Application Instructions** Submit a 1-2 page essay outlining the following: personal benefits that you will gain by attending the conference; how you will apply the knowledge and experience gained to further the goals of the UNBC chapter; your community involvement and leadership experiences; and your interest or active participation in the executive of the UNBC Golden Key chapter. General members should state what they will do for Golden Key UNBC. Executive members should state what they have done and what they will do for Golden Key UNBC in the future.

**Established** 2007

## 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 pro-active 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 to have been awarded will be utilized to purchase specialized equipment to facilitate the education of hearing impaired students.

**Criteria** Satisfactory academic standing.

**Application Instructions** Complete the financial need section of the application form and supply a letter outlining how you meet the other criteria for this award.

**Note** This bursary is renewable subject to the recipients earning a 2.0 grade in all courses.

**Endowed** 1992

## Prince George Filipino Canadian Association Scholarship

The Prince George Filipino Canadian Association is a socio-civic association established to uphold multiculturalism through active promotion of Filipino cultural values and heritage. The scholarship recognizes the academic excellence of a UNBC student of Filipino descent.

**Donor** Prince George Filipino Canadian Association Scholarship

**Value** \$500

**Number** One

**Eligibility** Available to a full time student enrolled in any program (incoming or registered) who is of Filipino descent.

**Criteria** Academic Proficiency and demonstrated community leadership.

**Conditions** Students unable to receive more than once.

**Recipient Selection** Criteria Senate Committee on Scholarships and Bursaries, on recommendation by the Awards Officer.

**Established** 2005

## Prince George Minor Basketball Association Bursaries

The Prince George Minor Basketball Association established these bursaries in order to encourage youth, reward hard work, and celebrate the role that athletics has in student life.

**Donor** Prince George Minor Basketball Association

**Value** \$500

**Number** Two

**Eligibility** Available to a full time undergraduate or graduate student. Preference will be given to a resident of Northern British Columbia and to any former participants in the Prince George Minor Basketball Association.

**Criteria** Demonstrated Financial Need, Satisfactory Academic Standing and Demonstrated Community Leadership

**Conditions** The recipients of these bursaries must be members of the Men's or Women's Varsity Basketball Teams.

**Application Instructions:** Fill out all the financial need section of the Awards Application form and attach a letter outlining your community leadership and any proof of previous membership in the Prince George Minor Basketball Association.

**Recipient Selection** Senate Committee on Scholarships and Bursaries, on recommendation of the respective Coaches of the UNBC Men's and Women's Varsity Basketball Teams.

**Established** 2005

## Awards and Financial Aid

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### Pulp, Paper and Woodworkers of Canada, Local 9 Bursary

The members of PPWC Local 9 established two bursaries to encourage its members and their families to further their academic education in the north and to assist them in overcoming financial barriers to post secondary education.

**Donor** Members of the Pulp, Paper and Woodworkers of Canada Local 9

**Value** \$1,500

**Number** Two

**Eligibility** Available to a full-time or part-time student in any program of study. Must be given to a member, the spouse of a member, a child, grandchild, or legal ward of a member or deceased member of the Pulp, Paper and Woodworkers of Canada, Local 9. Proof of membership must be supplied at time of application.

**Criteria** Demonstrated financial need

**Conditions** Student able to receive the bursary once.

**Established** 2004

### R.R. Smith Bursary in Education

The R.R. Smith Memorial Fund Foundation has established this award for teachers in training who maintain academic proficiency and demonstrate financial need.

**Donor** The R.R. Smith Memorial Fund Foundation

**Value** \$500

**Number** One

**Eligibility** Available to a full-time undergraduate student enrolled in the Bachelor of Education Program at UNBC

**Criteria** Demonstrated financial need and academic proficiency

**Application Instructions** Complete the financial need section of the awards application form.

**Endowed** 2006

### 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.

**Donor** BC Sugar

**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.

**Application Instructions** Complete the financial aid section of the application form and attach a letter outlining your community involvement.

### 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.

**Application Instructions** Attach a letter outlining your community involvement to your application form, complete the section on financial need, and answer the question regarding northern BC residency.

**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



## 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.

**Application Instructions** Attach a letter outlining your community service to your application form and answer the question regarding northern BC residency.

**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

## 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.

**Application Instructions** Complete the financial need section of the application form and answer the question regarding northern BC residency.

**Endowed** 1997

## Scotiabank Scholarship

**Donor** Scotiabank

**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.

**Criteria** Academic proficiency and financial need.

**Application Instructions** Complete the financial need section of the application form and supply a letter outlining how you have earned the money you plan to use for your education.

**Note:** Students may apply for and receive this award more than once.

**Endowed** 1999

## Awards and Financial Aid

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### Sharon Revel Bursary

Sharon Maria Ann Ferguson applied to the School of Nursing at the University of Northern British Columbia in 1956 but was turned down for health reasons. She went into teaching but always maintained a strong feeling for nursing. The Revel family has established this bursary in her honour, and to honour those who choose Nursing as a study and a profession.

**Donor** The Revel Family

**Value** \$500

**Number** One

**Eligibility** Available to a full student enrolled in the Bachelor of Science in Nursing (BScN) Program

**Criteria** Demonstrated financial need

**Recipient** Selection Senate Committee on Scholarships and Bursaries, on recommendation by the Awards Officer

**Endowed** 2006 (First award available in 2008)

### 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.

**Application Instructions** Complete the financial need section of the application form.

**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.

**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.

**Application Instructions** Complete the financial need section of the application form and submit a letter outlining your community involvement.

**Endowed** 1999

### Simons Foundation Bursaries for Lone Parents

The intent of the Simons Foundation Bursary Fund is to recognize and financially support promising and ambitious lone parents determined to pursue university educational opportunities. Preference for the award of these bursaries is given to female students as single mothers and their children who 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 UNBC students who are lone parents, and whose children are enrolled in the UNBC Daycare. Preference will be given to a female student.

**Criteria** Demonstrated financial need.

**Application Instructions** Complete the financial aid section of the application form and provide a statement confirming that your child(ren) are enrolled in the UNBC Daycare.

**Endowed** 1996

## Stafford Family Award

This award has been established to remember the great importance that Gordon and Eva Stafford placed on family and community involvement. Gordon and Eva made Prince George their home and in doing so helped both the community and their family grow strong. This award is in their memory.

**Donor(s)** Mark and Davida Stafford

**Value** \$5,000

**Number** One

**Eligibility** Available to a full or part time undergraduate student. Preference will be given to a resident of Northern British Columbia.

**Criteria** Demonstrated community involvement and academic proficiency.

**Application Instructions** Fill out all sections of the Awards Application form and attach your Resume and letters of reference in regards to your community involvement.

**Established** 2005

## 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.

**Application Instructions** Complete the financial need section of the application form and supply a letter outlining how you have earned the money you plan to use for your education.

**Note** Students may apply for and receive this award more than once.

**Endowed** 1993

## TD Bank Financial Group Bursary

**Donor** TD Canada Trust

**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.

**Application Instructions** Complete the financial need section of the application form.

**Note** Recipients may receive this award more than once.

**Endowed** 1998

## UNBC Alumni Association Athletics Award

The UNBC Alumni Association is proud of our members, who are emerging as leaders in our communities. The Alumni Association recognizes the role of competitive athletics in creating a positive public profile for the University, as well as providing a valuable learning experience for student athletes. These bursaries have been established by the Alumni Association to assist student athletes in pursuing their academic and athletic goals.

**Donor** UNBC Alumni Association

**Value** \$1,000

**Number** Two

**Eligibility** Available to full-time student. Preference will be given to a returning student with a minimum completion of 15 credit hours, and to varsity athletes.

**Criteria** Academic proficiency

**Application Instructions** Candidates must be nominated by the coaches of their respective teams to the UNBC Alumni Association Board of Directors.

**Note** The recipient must be willing to contact the Alumni Association to participate in any promotional activities relating to the bursary.

**Established** 2004

## 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, enrollment 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 Coordinator and coaching staff will select the recipients.

**Established** 1998

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## UNBC Founders Bursary

In 1988, almost 16,000 individuals signed a historical document, the petition submitted to the Provincial Government requesting the establishment of a university in northern BC. To commemorate the support of the petition signers, this bursary will act as a legacy to the ambition and foresight of those founding supporters of UNBC.

**Donor** Petition signers

**Value** \$1,000

**Number** TBA

**Eligibility** Available to full-time students who are residents of northern British Columbia.

**Criteria** Demonstrated financial need, academic proficiency, and community service/volunteerism.

**Application Instructions** Provide at least one but not more than three testimonial letters attesting to your keen spirit and personal initiative as a current volunteer in a community social service group. You must also provide a letter outlining the type and extent of your volunteer activities. Complete the financial need section of the application form.

**Endowed** 1998

## UNBC Men's Basketball Alumni Bursary

Four of the founding members of the UNBC Men's Basketball team have gone on to successful careers in the Prince George community. In appreciation of the inherent value of the athletics program for the University and the students, the donors are proud to help UNBC student-athletes pursue their academic and athletic goals.

**Donor** Nick Cheveldave, Mike Davis, Greg Sale, Zane Robison

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time student. Preference will be given to a male varsity basketball player at UNBC.

**Criteria** Demonstrated financial need and satisfactory academic standing.

**Recipient Selection** Criteria Coach's nomination referred to the Coordinator of Financial Awards with final approval of the Senate Committee on Scholarships and Bursaries.

**Established** 2004

## UNBC Students for Life Bursary for Single Parents

This award has been created to support single parents in pursuit of higher education at UNBC. The UNBC Students for Life take pride in helping students who choose to raise a child on their own.

**Donor** UNBC Students for Life

**Value** \$500

**Eligibility** Available to full time or part time undergraduate or graduate student who is a single parent.

**Criteria** Demonstrated financial need and satisfactory academic standing.

**Note** In the event that there are more qualified applicants than awards available, preference will be given to an undergraduate student who has not previously received this award.

**Application Instructions** Fill out all sections of the Awards Application form.

**Established** 2007

## Vancouver Foundation First Nations Bursary

The Vancouver Foundation has created a First Nations Bursary program available in recognition of the extraordinary challenges faced by First Nations students in accessing post-secondary education, and the efforts that the universities are making to welcome and support the success of First Nations students on their campuses.

**Donor** The Vancouver Foundation

**Value** \$1,000

**Number** Four

**Eligibility** Available to an undergraduate student of First Nations heritage who is a resident of British Columbia and enrolled at the University of Northern British Columbia.

**Criteria** Demonstrated financial need.

**Application** Instructions Complete the financial need section of the application form.

**Established** 2004

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### 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 graduating high school student admitted to the Plant Biology Program at UNBC. If no suitable candidate from this program is identified, the award will be given to a declared Biology major.

**Criteria** Satisfactory academic standing and demonstrated financial need.

**Endowed** 1994

### Western Chartered Financial Athletic Scholarship

Western Chartered Financial supports the efforts of exceptional student athletes so that they may be more successful in all their endeavors. Investing in students' scholarships with UNBC is one way that WCF gives back to the community it serves. Through these scholarships, WCF is supporting well-balanced students. In financial services and in life, being balanced is the key to success.

**Donor** Western Chartered Financial

**Value** \$1,000

**Number** Two

**Eligibility** Available to a full time undergraduate student who has completed at least 24 credit hours. Preference will be given to a resident of Northern British Columbia.

**Criteria** Academic Proficiency and Demonstrated Community Leadership.

**Conditions** Students must be a member of any UNBC Varsity athletic team.

**Note** Students cannot receive this award more than once.

**Established** 2005

### Yvonne Smith Bursary

From 1994 until her retirement in 2006, Yvonne Smith was the Administrative Assistant for Geography and Resource Recreation and Tourism. This award was created by her friends to honour Yvonne's dedication to students.

**Donor** Friends of Yvonne Smith

**Value** \$500

**Number** One

**Eligibility** Available to a full-time or part-time undergraduate student who is a lone parent. First preference will be given to a female student. Second preference will be given to a student with a declared major in Geography, Outdoor Recreation and Conservation, or Nature-Based Tourism.

**Criteria** Demonstrated Financial Need and Academic Proficiency.

**Note** In the event that two or more applicants are equally qualified, preference will be given to the candidate with the highest academic standing.

**Application** Instructions Complete the financial need and voluntary information sections of the Awards Application form.

**Established** 2006

## 6. Part-time Student Awards

Students who are registered in and attempt less than nine credit hours per semester are eligible for these awards.

### BC Hydro Bursary

BC Hydro is proud to support UNBC students in their commitment to and pursuit of postsecondary education. As part of their community outreach programs, BC Hydro focuses on the key areas of: environmental sustainability and stewardship, involvement in education, scholarships, aboriginal relations, and arts, cultural and community organizations.

**Donor** BC Hydro

**Value** \$500

**Number** One

**Eligibility** Available to a full or part time undergraduate student with a declared major in Planning (BPI). Preference will be given to a First Nations Student.

**Criteria** Demonstrated financial need and academic proficiency.

**Conditions** No one is able to receive this award more than once.

**Recipient Selection** Senate Committee on Scholarships and Bursaries, on recommendation by the Awards Officer.

**Endowed** 2005

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## CIBC Wood Gundy Endowed Scholarship

CIBC Wood Gundy is one of the world's leading international financial management and advisory companies, offering a full range of investment services to individual, corporate, government, and institutional clients. The CIBC Wood Gundy Endowed Scholarship was established on their business principles of recognition for individual respect, teamwork, responsible citizenship, and integrity. The CIBC Wood Gundy Endowed Scholarship provides recognition to committed achieving students, majoring in Finance with limited resources and unlimited potential.

**Donor** Established by CIBC Wood Gundy

**Value** \$1,000

**Number** One, renewable for up to two additional years.

**Eligibility** Available to a full or part-time student who has completed a minimum of 60 credit hours with a declared major in Finance. The recipient will be a resident of northern British Columbia.

**Criteria** Academic excellence.

**Application Instructions** Complete the question regarding northern BC residency on the awards application form.

**Note** This award is renewable for up to two additional years subject to the recipient maintaining a GPA of at least 3.67.

**Endowed** 1996

## Gordon Ternowetsky Memorial Bursary

Gordon Ternowetsky (1946-1999) was one of the founding faculty members of UNBC, hired as the first professor in the Social Work program. Teacher, author, and family man, Gordon was instrumental in establishing the Child Welfare Research Centre at UNBC. This bursary was established by UNBC students, colleagues and friends as a tribute to his memory.

**Donor** Family and others

**Value** \$500

**Number** One

**Eligibility** Available to a full or part-time student enrolled in the Bachelor of Social Work program.

**Criteria** Demonstrated financial need and satisfactory academic standing.

**Application Instructions** Complete the financial need section of the awards application form.

**Note** Selection of the recipient is based on the recommendation of the Social Work program.

**Endowed** 1999

## Mary Fallis Scholarship

Mary Fallis arrived in Prince George in 1969 to become a founding member of the English Department at the College of New Caledonia. After her retirement she remained in Prince George sharing her passions: learning, photography, mountain climbing and conservation of the natural world. She received an Award of Merit in Recreation from the city of Prince George, and in 1994, was made a Friend of the University of Northern British Columbia. She had a keen interest in the lives of her twelve nieces and nephews. They, with her friends in the community and across the country, have established this scholarship in her name. It is to be an on-going tribute to Mary Fallis – educator, naturalist and photographer.

**Donor** Family and friends of Mary Fallis

**Value** \$1,000

**Number** One

**Eligibility** Available to a full-time or part-time student who has completed at least 60 credit hours towards a degree with a declared major in English. The recipient will be a resident of northern BC.

**Criteria** Academic excellence

**Application Instructions** Complete the residency section of the awards application form.

**Endowed** 2000

## Northern Undergraduate Student Society Bursaries

This fund was established by the members of the Northern Undergraduate Student Society who wish to support undergraduate students of the University of Northern British Columbia to attain their full potential as educated and productive members of society by the provision of annual bursaries.

**Donor** Northern Undergraduate Student Society

**Value** \$500

**Number** Variable

**Eligibility** Available to an undergraduate student who has demonstrated exceptional University community service.

**Criteria** Academic proficiency, demonstrated financial need and exceptional University community service.

**Application Instructions** Submit three letters of reference demonstrating community service and complete the financial aid section of the application form.

**Note** No candidate may receive this award more than once.

**Endowed** 2000

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## Political Science Student Association Annual Scholarship

The Political Science Student Association is a student club within the University that was formed to promote political discussion on campus. Their aim is to facilitate political discussion and to encourage participation in campus life. They have established this scholarship to encourage and support those interested in Political Science to continue their academic careers.

**Donor** The Political Science Student Association

**Value** \$500

**Number** One

**Eligibility** Available to a full or part-time student enrolled who has completed at least 60 credit hours towards a degree in Political Science.

**Criteria** Satisfactory academic standing and active involvement in the community or in campus life.

**Application Instructions** Candidates must include two letters of reference demonstrating involvement in the community or in campus life.

**Note** The Political Science Student Association Executive are not eligible to apply for this award. No candidate may receive this award more than once.

**Established** 2001

## Pulp, Paper and Woodworkers of Canada, Local 9 Bursary

The members of PPWC Local 9 established two bursaries to encourage its members and their families to further their academic education in the north and to assist them in overcoming financial barriers to post secondary education.

**Donor** Members of the Pulp, Paper and Woodworkers of Canada Local 9

**Value** \$1,500.00

**Number** Two

**Eligibility** Available to a full-time or part-time student in any program of study. Must be given to a member, the spouse of a member, a child, grandchild, or legal ward of a member or deceased member of the Pulp, Paper and Woodworkers of Canada, Local 9. Proof of membership must be supplied at time of application.

**Criteria** Demonstrated financial need

**Conditions** Student able to receive the bursary once and can not renew bursary.

**Established** 2004

## 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.

**Application Instructions** Complete the financial need section of the application form and answer the question regarding northern BC residency.

**Endowed** 1996

## TD Bank Financial Group Bursary

**Donor** TD Canada Trust

**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.

**Application Instructions** Complete the financial need section of the application form.

**Note** Recipients may receive this award more than once.

**Endowed** 1998

## UNBC Part-time Undergraduate Scholarships

**Donor** The University of Northern British Columbia

**Value** \$500

**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 enrollment at the University of Northern British Columbia in the semester immediately following the granting of the award.

**Established** 1994

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## Yvonne Smith Bursary

From 1994 until her retirement in 2006, Yvonne Smith was the Administrative Assistant for Geography and Resource Recreation and Tourism. This award was created by her friends to honour Yvonne's dedication to students.

**Donor** Friends of Yvonne Smith

**Value** \$500

**Number** One

**Eligibility** Available to a full-time or part-time undergraduate student who is a lone parent. First preference will be given to a female student. Second preference will be given to a student with a declared major in Geography, Outdoor Recreation and Conservation, or Nature-Based Tourism.

**Criteria** Demonstrated Financial Need and Academic Proficiency.

**Note** In the event that two or more applicants are equally qualified, preference will be given to the candidate with the highest academic standing.

**Application Instructions** Complete the financial need and voluntary information sections of the Awards Application form.

**Established** 2006

## 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.

**Application Instructions** Applications, including transcripts and reference letters, should be sent directly to BC Hydro by January 13 each year.

**First Award** 1994

### CA Education Foundation Award

**Donor** Chartered Accountants' Education Foundation

**Value** \$1,000

**Number** Seven

**Eligibility** Available to students in their final year of their degree program. Successful applicants will receive their award upon registering in the CA School of Business (CASB) or the Advanced Certificate in Accounting (ACIA) program.

**Criteria** Students must be in their final year of their degree program, include a letter indicating intention to become a Chartered Accountant and submit an application form to the CA Education Foundation.

**Application Instructions** The application deadline is February 28. A committee will review the applications and notify successful applicants by April 30. Students must apply directly to the CAEF and may download the application form from the CAEF website at [www.caef.bc.ca](http://www.caef.bc.ca)

**Endowed** 1990

### 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.

**Application Instructions** 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.



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### 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.

**Application Instructions** 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 any secondary school on the "Sunshine Coast".

**Criteria** Academic excellence and involvement in the school and/or community.

**Note:** Nominations will be made by the faculty of any secondary school on the "Sunshine Coast" in consultation with the School District.

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. The intent of this fund is to assist Houston students in their pursuit of a post-secondary education at UNBC.

**Donor** Citizens of Houston and District

**Value** Variable

**Number** One

**Eligibility** Available to a full-time student entering first year of a degree program at UNBC who is a permanent resident of Canada, a graduate of a Houston Secondary School, and who has been a resident of Houston for at least two consecutive years immediately prior to commencing study at UNBC.

**Criteria** Academic proficiency demonstrated record of community involvement and/or volunteerism in clubs and organizations and sporting activities.

**Application Instructions** 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.

**Application Instructions** 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 reapply for the award.

**Endowed** 1996

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## Springboard to Success Scholarship

This scholarship recognizes well-rounded deserving graduating high school students who have demonstrated strong school service and leadership, maintained a GPA of 6.0 or greater in high school, as well as participated in athletics and/or clubs. The Springboard to Success Scholarship is named each year in recognition of an individual or group that contributed to public education within the boundaries of School District No. 57 (Prince George).

**Donors** School District No. 57 and UNBC

**Value** \$2,000 (\$1,000 and a \$1,000 tuition waiver)

**Number** Variable

**Eligibility** Available to a student attending any school participating in the School District No. 57 Awards Program

**Criteria** Demonstrated high school achievement of 6.0 GPA or greater. Demonstrated strong school service and leadership. Demonstrated involvement in school sports and/or clubs.

**Conditions** Recipient must enroll in full time studies at UNBC

**Application Instructions** Fill out all sections of the School District No. 57 Awards Committee application form and attach a letter of reference outlining your school participation.

**Recipient Selection:** School District No. 57 Awards Committee

**Established** 2006

## III. Financial Aid

### British Columbia Student Assistance Program (full-time students)

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.

#### Grants

Students may receive grants from the Canadian Millennium Scholarship Foundation (CMS Grant). To be eligible for grants, students must be enrolled in their first four years of full-time undergraduate studies and have assessed financial need in excess of \$125 per week of study. Because CMS grant funding is an integrated part of the British Columbia Student Assistance Program, CMS Grant may replace loans. Students will be assessed for grant eligibility when they apply for BC funding.

#### 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 also apply on line at: [www.studentaidbc.ca](http://www.studentaidbc.ca)

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.

### 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 UNBC Awards and Financial Aid (Office of the Registrar) 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 UNBC Awards and Financial Aid (Office of the Registrar).

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## International Students

Students who plan to attend UNBC on a Student Visa are advised to check with their own country's government office with respect to any student financial aid that may be available to them for study abroad.

UNBC is listed as an eligible school under the Paras Foundation; an organization that provides financial assistance to international students. Information regarding eligibility may be obtained from the web at [www.isloan.org](http://www.isloan.org).

US citizens who plan to attend UNBC may be eligible for financial assistance under the Federal Stafford Direct Loan program. Applications may be submitted on the web at [www.fasfa.ed.gov](http://www.fasfa.ed.gov). US students are advised to contact UNBC Awards and Financial Aid (Office of the Registrar) at least three weeks prior to the start of classes for further instructions on how to receive their student loan funding. Failure to do so may result in a delay of the receipt of such funds.

## 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 students with disabilities with exceptional education-related costs associated with certain permanent disabilities. The grants 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, and tutors are examples of eligible goods and services; tuition and books will not be funded under this program.

For more information on how to apply for a Canada Study Grant for Students with Disabilities, please contact the UNBC Disabilities Advisor.

## 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 from UNBC Awards and Financial Aid Office, or from 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.studentaidbc.ca>.

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# Index

2008 September Semester.....	54	Auditing Courses.....	59
2009 January Semester.....	54	Awards.....	265
2009 May Semester.....	55	Awards and Financial Aid.....	262
Aboriginal Community Resource Planning.....	127	BA (General).....	72
Aboriginal Health Sciences.....	126	BA Honours - Anthropology.....	75
Aboriginal Health Sciences.....	127	BA Honours - History.....	141
Academic Advising.....	37	BA Honours - International Studies.....	144
Academic Offences.....	64	BA Nature-Based Tourism Management.....	163
Academic Sanctions.....	65	Bachelor of Applied Science (BASc).....	22
Academic Standing - Definition.....	65	Bachelor of Arts (BA).....	22
Academic Year.....	54	Bachelor of Commerce (BComm).....	22
Additional Information on Fees.....	52	Bachelor of Education.....	22
Addresses.....	3	Bachelor of Fine Arts (BFA Program).....	22, 109, 122
Administrative Policies.....	266	Bachelor of Health Sciences (BHSc).....	22
Admission.....	104	Bachelor of Planning (BPI).....	22
Admission Awards for New Post-secondary Students.....	269	Bachelor of Science (BSc).....	22
Admission Awards for Undergraduate Students New to UNBC.....	273	Bachelor of Science in Nursing (BScN).....	23
Admission from a BC Community College, University College, and Yukon College.....	31	Bachelor of Social Work.....	23
Admission from a Canadian University.....	32	BC Freedom of Information and Protection of Privacy Act.....	56
Admission from a College of Applied Arts and Technology (Ontario).....	31	BC High School Transcripts.....	28
Admission from College Outside BC and Quebec.....	31	Biochemistry & Molecular Biology (BSc Program).....	77
Admission from Institutes of Technology.....	31	Biology.....	181
Admission from Secondary Schools and CEGEP in Other Canadian Provinces.....	29	Biology (BSc Program).....	79
Admission Requirements by Degree Groups.....	27	Board of Governors.....	19
Admission Requirements for Applicants from BC and Yukon High Schools.....	28	Bookstore.....	37, 48
Admission to a Second Undergraduate Degree.....	33	British Columbia Adult Graduation Diploma.....	29
Admission to Graduate Studies.....	24	British Columbia Student Assistance Program.....	338
Admission to the Program.....	68	BSc (Integrated).....	72
Admission with a General Certificate of Education.....	33	BSc (Joint Major in Economics/Mathematics).....	95
Admissions.....	25	BSc Honours - Psychology.....	169
Advanced Placement.....	29	BSc Honours—Environmental Science.....	119
Advanced Standing.....	59	BSc Honours—Forest Ecology and Management.....	150
Aims of the BScN Program.....	158	BSc NRM-Major in Outdoor Recreation and Conservation.....	163
Alberta and the Northwest Territories.....	29	BScN Completion.....	163
Alumni Association.....	37	BSW: Child Welfare Specialization.....	173
Anthropology.....	177	BSW: First Nations Specialization.....	174
Anthropology (BA Program).....	74	Business Administration.....	26
Appeal of Final Grade.....	67	Calculation of Grade Point Average.....	62
Appeal of Term Grades While Course is in Progress.....	66	Canadian Association for Co-operative Education.....	69
Appeal Procedure on Requirement to Withdraw.....	67	Canadian Students.....	25
Appeals Process.....	66	Cashier's Office.....	48
Application Deadlines.....	25	CASHS Academic Structure.....	10
Application of Certain Professional Courses to Earn an Undergraduate Degree.....	61	Centre for Teaching, Learning & Technology.....	37
Application Process.....	71	Centres.....	37
Applications.....	265	Ceremonial Chairs.....	9
Arts.....	26, 181	Certificate Programs.....	23
Assistance for Students with Permanent Disabilities.....	339	Challenge for Credit by Examination.....	59
Athletics and Recreation.....	44	Change of Grade after Submission of Final Grades.....	61
Audit Only.....	32	Chemistry.....	183
		Chemistry (BSc Program).....	88
		Child Welfare Certificate.....	174
		Childcare Society.....	38
		Class Attendance.....	59
		Classification of Students.....	58

Coat of Arms .....	8	Language and Culture .....	97
Commerce/School of Business .....	187	Environmental Engineering (BAsC Program) .....	110
Common Requirements for all Business Students .....	82	Environmental Programs (BAsC, BA, and BSc Programs) .....	110
Common Requirements: All Majors .....	139	Environmental Science (BSc Program) .....	117
Communications .....	38	Environmental Science and Engineering .....	210
Community Development Institute .....	40	Environmental Studies .....	212
Competitive Entry Programs .....	26	Environmental Studies (BA Program) .....	120
Computer Science .....	191	Evaluation of Transcripts .....	60
Computer Science (BSc Program) .....	91	Examinations .....	63
Conditions of Academic Standing .....	65	Exemptions .....	61
Conduct in Examinations .....	63	Externally Administered Awards .....	336
Conference and Events Services .....	38	Facilities and Security .....	38
Contents .....	262	Faculty .....	12
Continuing Studies .....	38	Faculty of Medicine Regulations .....	36
Continuing Studies Credit .....	29	Fees .....	50
Continuing/Returning Students .....	58	Final Examinations Missed .....	64
Co-op Education Students .....	50	Finance .....	48
Co-operative Education .....	61, 68, 111, 187	Finance Office .....	39
Copy Services .....	38	Financial Aid .....	338
Core Courses .....	196	First Entry Professional Programs .....	26
Corner Store .....	48	First Nations Centre .....	39, 48
Cornerstore .....	38	First Nations Certificate Programs .....	127
Course Abbreviations Listed Alphabetically .....	176	First Nations Diploma Programs .....	126
Course Descriptions .....	176	First Nations Language .....	126, 128
Course Load .....	58	First Nations Public Administration .....	128
Course Offerings .....	176	First Nations Studies .....	213
Course Requirements .....	71	First Nations Studies (BA Program) .....	124
Criminal Records Search .....	60	Fitness Centre .....	48
CSAM Academic Structure .....	11	Food Court .....	48
Declaring a Major .....	60	Food Services .....	39
Deferred Examinations and Grades .....	64	Forestry .....	220
Definitions .....	265	Fort St. John Campus .....	42, 49
Degree Groups .....	26	Frequently Called Numbers .....	2
Degrees .....	22	Full-Time Studies .....	58
Diploma and BEd Academic Regulations .....	102	General Academic Regulations .....	58
Diploma and BEd Teaching Practicum Regulations .....	103	General Electives .....	135
Diploma and Certificate Programs .....	23	General First Nations Studies .....	129
Diploma Requirements .....	126	General Requirements .....	138, 158
Disability Services .....	48	General Requirements for a Degree With a Major .....	58
Double Majors .....	60	Geoffrey R. Weller Library .....	39
Dual High School/University Credit .....	33	Geography .....	221
Early Admission Awards .....	268	Geography (BA and BSc Programs) .....	131
Early Provisional Admission from a BC High School .....	28	Geography Program (BA) .....	131
Economics .....	196	Geography Program (BSc) .....	134
Economics (BA and BSc Programs) .....	94	Government Part-time Loans and Grants .....	338
Education .....	198	Grading .....	62
Education (BEd Program) .....	96	Graduate Programs .....	24
Education Diploma in a First Nations Language and Culture (Elementary Years) .....	101	Graduation .....	111
Educational Media Services .....	40, 48	Graduation Constraints .....	61
Elementary (Grade K-7) .....	96	Grounds for Withholding Official Transcripts .....	62
E-mail Communication .....	58	Harassment, Discrimination, and Diversity Initiatives .....	57
Emergency closures .....	48	Headstart Entry from a BC High School .....	28
English .....	205	Health and Human Science .....	224
English (BA Program) .....	106	Health Sciences (BHSc Program) .....	138
English Language Requirements .....	34	History .....	226
Enrollment Management at UNBC .....	25	History (BA Program) .....	141
Entry route via an Education Diploma in a First Nations		Holidays .....	48
		Hours of Operation .....	48

# Index

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How to Apply .....	36	Nursing (BScN Program).....	157
Human Resources Department .....	40	Off-Campus Housing.....	43
Human Resources Management .....	85	Office of Research and Graduate Programs .....	41
In-course Undergraduate Awards .....	275	Office of the Northern Medical Program.....	36
Information Technology Services .....	40	Office of the Registrar .....	42
Institute for Social Research and Evaluation .....	40	Office of University Advancement .....	37
Institutes .....	40	Officers of the University.....	19
Institutional Values .....	7	Official and Unofficial Transcripts.....	59
Interest Only .....	32	On-Campus Housing .....	43
International Admissions.....	33	Ontario.....	29
International Baccalaureate .....	28	Open Awards .....	313
International Business .....	86	Other Admission Categories.....	32
International Centre.....	48	Outdoor Recreation and Tourism Management.....	245
International Exchange .....	230	Outdoor Recreation and Tourism Management Program .....	163
International Exchange and Student Programs Office.....	41	Parking .....	42
International Exchange Grading.....	62	Parking Fees.....	51
International Exchange Program.....	35	Part-time Student Awards.....	333
International Students .....	25, 41, 50, 339	Part-Time Studies .....	58
International Studies.....	230	Permission for Undergraduates to Take Graduate Course Work .....	24
International Studies (BA Program).....	143	Philosophy.....	164, 247
International Studies Requirement.....	85	Physics .....	247
Internship Courses .....	69	Physics (BSc Program) .....	164
Introduction .....	37	Political Science.....	250
Language Requirement .....	144, 145	Political Science (BA Program) .....	166
Languages .....	234	Post Secondary Admissions .....	30
Letters of Permission .....	60	Post-Baccalaureate Diploma (Curriculum & Instructional Studies and Montessori Education).....	104
Literacy Requirement .....	146	Post-Diploma Baccalaureate Nursing Program.....	161
Lower Division and Upper Division Courses.....	59	Potential Nature-Based Tourism Streams.....	153
Mace .....	9	Prerequisites .....	176
Manitoba.....	29	President's Message .....	4
Marketing.....	86	Prince Edward Island.....	30
Mathematics.....	234	Prince George Campus Buildings .....	46
Mathematics (BSc Program) .....	146	Prince George Campus Overview .....	47
Mature Student Entry .....	32	Prince Rupert Campus .....	49
Métis Studies.....	129	Procedure on Suspicion of an Academic Offence.....	64
Minors.....	60	Procedures for Evaluating Complaints of Misconduct.....	57
Mission .....	7	Professional & Competitive Entry Programs .....	25
Natural Resources and Environmental Studies .....	238	Program Description .....	70
Natural Resources Management .....	238	Program Objectives.....	70
Natural Resources Management (BSc Program).....	148	Program Requirements.....	125
Nature-Based Tourism Management (BA Program).....	152	Programs .....	68
New Brunswick.....	30	Progression .....	111
Newfoundland and Labrador.....	30	Psychology .....	253
Nisga'a Studies.....	129	Psychology (BSc Program).....	168
Northern Advancement Program .....	70	Public Administration.....	170
Northern British Columbia Graduate Students' Society.....	41	Public Administration Certificate Program .....	170
Northern Collaborative Baccalaureate Nursing Program.....	160	Purpose and Definition .....	56
Northern Land Use Institute .....	40	Purpose of Academic Regulations .....	58
Northern Medical Program.....	36	Quebec .....	30
Northern Medical Program (MD).....	23	Quebec Grade 12 .....	30
Northern Studies.....	239	Quesnel Campus .....	49
Northern Studies (BA Program) .....	155	Regional Campuses .....	49
Northern Undergraduate Student Society.....	41, 48	Regional Operations.....	42
Northwood Winter Garden Deli .....	49	Registrar's Office .....	48
Notification of Disclosure of Personal Information to Statistics Canada .....	56	Registration after the Published Add/Drop Date.....	61
Nova Scotia .....	30	Regulations .....	110
Nursing .....	240	Religious Holidays/Examination Schedule .....	63

Repeating Courses.....	61	Student Career Centre.....	43
Research at UNBC .....	24	Student Conduct.....	56
Residence Fees .....	51	Student Misconduct .....	57
Residency.....	111	Student Recruitment .....	48
Residency Requirement for Graduation.....	59	Student Services.....	48
Risk Management and Safety .....	43	Student Services at UNBC .....	36
Rural Acute Care Nursing Certificate.....	162	Student Success.....	43
Russian Studies .....	171	Student Success Initiative.....	71
Saskatchewan .....	29	Students From Other Provinces.....	338
School of Business (BComm Program).....	81	Studying at UNBC as a Visiting Student (on a Letter of Permission) ...	33
School of Environmental Planning (BPI).....	112	Table of Contents .....	5
Science .....	26	Terrace Campus.....	42, 49
Scope .....	57	Time Limit for Transfer Credit.....	60
Second Undergraduate Degrees.....	61	Time to Complete an Undergraduate Degree.....	61
Secondary (Grades 8-12) .....	98	Traditional Environmental Knowledge.....	130
Selection Criteria for International Exchange Participants .....	35	Transfers .....	111
Senate .....	19	UNBC's Northern Mandate.....	3
Senate Committee on Academic Appeals: Procedures .....	66	Undergraduate Grading System .....	63
Senate Dates.....	55	Undergraduate Programs.....	22, 72
Services and Facilities.....	37	Undergraduate Programs of Study.....	157
Sessions.....	54	Undergraduate Regulations and Policies .....	56
Social Work .....	256	University .....	260
Social Work (BSW Program).....	171	University Administrative Officers .....	20
Special Early Provisional Admission.....	28	University Closure/Weather .....	67
Special Entry .....	32	University Colours .....	8
Specializations.....	134	University Housing and Residence Life.....	43
Starbucks.....	49	Upper Division and Graduate Level Courses .....	176
Statement of Nursing .....	157	Vending Services .....	39
Statement of Nursing Education .....	157	Wiłp Wilxo'oskwhl Nisga'a .....	49
Statement on Transfer .....	30	Women North Network/Northern FIRE.....	38
Student Access to Final Examinations.....	63	Women's Studies .....	260
Student Access to Official University Record.....	60	Women's Studies (BA Program) .....	174

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# Notes