

# Health Careers: University Guide



2010

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**Admission Requirements are listed according to the province of the University. Please see the University website for out-of-province admission information.**

**Please note:** Most Nursing Programs & other health programs require students to meet additional requirements, including but not limited to: a Criminal Record check, immunization requirements, CPR Level C, First Aid, WHMIS, etc. Please check your desired University's specific requirements for Nursing & other health programs. Also, check to see if any other requirements are needed such as biographical essays, face-face interviews, testing, etc.

Remember to research different school's to find out what they have to offer you as a student. Search programs, clubs, associations, activities; whatever your interests may be.

Check out campus tours and career fairs – many Universities attend career fairs – this is your chance to ask a representative any questions you may have. Remember many University programs are 3-4 years in length; you want to make an informed decision.

You may be wondering what types of programs there are at Universities leading to health careers. Here is a list of programs & what their possible career paths are:

#### **Kinesiology/Human Kinetics**

Possible careers: Rehabilitation & athletic therapy, Coaching, Sport psychology, Exercise prescription and programming, Fitness and athletic performance assessment, Exercise science research.

#### **Public Health**

Possible careers: health promotion specialist, health care manager and administrator, health policy analyst, health researcher, health program planner

#### **Science Degrees including Biology, Chemistry, Biochemistry, Biomedical Sciences**

Possible Careers: medicine, health researcher, research scientist, pharmaceutical researcher, chiropractors, dentists, optometrists, pharmacists, physicians, research scientists, health researchers.

#### **Health Sciences**

Possible Careers: Medicine, Physiotherapist or chiropractor, public health educator, occupational therapist, dentist, research co-ordinator, epidemiologist.

#### **Nursing**

Possible Careers: public health, hospital care, research, policy development, administration, long-term care.

#### **Neuroscience:**

Possible Careers: physician or surgeon, physical and occupational therapist, pharmacist or toxicologist, research technician, medical technologist, veterinarian or anaesthesiologist.

#### **Psychology**

Possible Careers: clinical coordinator, educator, overnight counsellor, psychology

paraprofessional, relief counsellor, residential counsellor, social services worker, support worker, youth services worker.

## **Other Programs**

### **Pharmacy**

Most graduates find employment in community pharmacies, department store pharmacy, and medical pharmacies. Others find employment in hospitals & other health care institutions.

### **Midwifery**

Midwives in Ontario are primary care practitioners, recognized as responsible and accountable professionals who work in partnership with women to give the necessary support, care and advice during pregnancy, labour and the postpartum period, to conduct births and to provide care for the newborn and the infant

### **Biomedical Sciences**

Understand basic biological processes. Investigate how they relate to health and disease. Study the basics of anatomy and cell biology, biochemistry, microbiology and immunology, pharmacology and physiology. Prepare for a future in the professional health sciences.

### **Health Information Science**

The study of how health data are collected stored and communicated; how those data are processed into health information suitable for administrative and clinical decision making; and how computer and telecommunications technology can be applied to support these processes. Students learn to identify what information and data are needed by doctors, nurses, hospital administrators, government planners and other health care professionals and how they are used in order to make effective health care decisions.

### **Unique Health Programs:**

**McMaster University:** Medical Radiation Sciences, Life Sciences, Midwifery.

**Ryerson University:** Occupational and Public Health, Midwifery

**Concordia University:** Clinical Exercise Physiology

**Dalhousie University:** Radiological Technology, Respiratory Therapy, Bachelor of Science in Health Promotion, Nuclear Medicine, Diagnostic Medical Ultrasound, Bachelor of Science in Diagnostic Cytology.

# ALBERTA



## **Athabasca University**

**Athabasca, Alberta**

**Website:** <http://www.athabascau.ca/>

### **Bachelor of Health Administration (4 years)**

Provide Leadership for all areas of health services

Use effective verbal and written communication strategies in management

Demonstrate an understanding of the Canadian legal framework and the organization and delivery of health care in Canada

Manage and supervise the human resources divisions of organizations

Exhibit a broad overview of the health-care field and health issues, and explore the nature and causes of major health-care problems

Demonstrate an advanced knowledge of health-care economic principles and an understanding of how to apply them in the health-care decision-making process

**Career Options:** Private health care facilities & long term care facilities, manager administrator at mental health facilities, hospitals, provincial government health departments & social service departments

### **Admission Requirements**

#### **Bachelor of Science (4 years)**

General Science Education

Students have the opportunity to complete courses that are transferable to pre-medicine, pre-dentistry, and pre-veterinary programs offered at other universities in Alberta and across Canada

**Career Options:** Lab worker, researcher, project manager

#### **Bachelor of Human Science (4 years)**

The program is designed for students who are pursuing a concentration in Human Science. This program is particularly suited for individuals who wish to continue professional careers in health sciences, research and development, bio-diagnostics, to name several areas

**Career options:** Health Researcher, Lab worker, health services co-ordinator

**Admissions:** See website for admission procedures.



**Augustana University**

**Camrose, Alberta**

**Website: <http://www.augustana.ualberta.ca>**

### **Bachelor of Science Degrees in Chemistry, Biology (4 years)**

An undergraduate degree completed at Augustana has several advantages over degrees obtained from other post-secondary institutions. The greatest advantage is our ability to provide a smaller and more intimate learning environment which places students in closer contact with their instructors than is available at other institutions. Also, our liberal arts and sciences core curriculum ensures that students graduate with the broad academic background requested by most medical schools. At Augustana, premedical students graduate with significant exposure not only to the life sciences, but also to chemistry, the mathematical sciences, fine arts, humanities, and social sciences, all of which are required in Augustana's core curriculum. In addition, our senior Biology and Chemistry students are eligible to apply for student lab assistantships.

#### **Alberta Entrance Requirements:**

English Language Arts 30-1

Pure Mathematics 30 (for a major in Physical Education, one subject from Group A or C may be presented in lieu of Pure Mathematics 30).

Two subjects from Group C (for a major in Computing Science, one subject from Group A may be presented in lieu of a second Group C subject; see additional requirements below for other specific majors and minors).

One subject from Group A, B, or C or Physical Education 30, Aboriginal Studies 30, or other approved 30-level subject

#### **Additional Requirements by Major:**

Biology – Biology 30 and Chemistry 30 are required.

Chemistry – Chemistry 30 is required.



**Concordia University College of Alberta  
Edmonton, AB**

**Website:** <http://www.concordia.ab.ca/>

Bachelor of Science Degree in Biology, Chemistry (4 year & 3 year)

**Alberta Entrance Requirements:**

To be considered for admission, applicants must present the following course requirements:

English 30 or English Language Arts 30-1

Pure Mathematics 30

Two of Biology 30, Chemistry 30 or Physics 30

One subject from Group A, B or C (see *Classification of Alberta Grade 12 Subjects* [PDF](#), table 3.2.1)



**The King's University College  
Edmonton, Alberta**

**Website:** <http://www.kingsu.ca/>

**Bachelor of Science Degree in Biology, Chemistry, And Psychology (4 years & 3 years)**

Applicants must present five Grade 12 courses including English, with a **minimum average of 60%**. This average will be calculated on the final grades for these courses as they appear on the final, official transcript. In provinces where provincial testing for a course is optional, the grade used will be the higher of the school grade or the blended grade.

All applicants to The King's University College are expected to have a level of English proficiency sufficient to enable them to succeed in our programs.

For more information contact the enrolment department: Joel Tolhurst, Admissions Counselor  
780-465-3500 ext: 8093

See for more information: <http://www.kingsu.ca/future-students/staff.html>



**University of Alberta**  
**Edmonton, Alberta**  
**Website: <http://www.ualberta.ca/>**

### **Bachelor of Science in Nursing (4 years)**

#### **Alberta Entrance Requirements:**

English Language Arts 30-1

Biology 30

Choose one of Chemistry 30 or Science 30

Choose one of Pure Mathematics 30 or Mathematics 31;

Choose one of Chemistry 30; Science 30; Pure Mathematics 30; Mathematics 31; Physics 30;

Computer -Science, Advanced Level CTS (5 credits); Social Studies 30-1; 30-level language; Fine Arts Course

#### **Additional Requirements if Accepted:**

Record of Immunization, Medical examination (including Blood borne Pathogen testing), CPR certification, and Standard First Aid will be required from accepted applicants only, as per §133.2(2) of the UofA Calendar

### **Bachelor of Science in Pharmacy (4 years)**

Most graduates find employment in community pharmacies, department store pharmacy, and medical pharmacies. Others find employment in hospitals & other health care institutions.

### **Bachelor of Science in Kinesiology (4 years)**

#### **Alberta Admission Requirements**

English 30 or English language arts

Chemistry 30

Pure Mathematics 30

Physics 30

One of Biology or physical education 30

At the U of A, we are committed to encouraging Aboriginal Students in their work towards a degree. Aboriginal students have been under-represented in higher education in Canada, thus our policy is aimed at increasing opportunity, with the goal of our Aboriginal student population being representative of the public we serve. For more information on Admission of Aboriginal Students refer to the *U of A Calendar*.



**University of Calgary**  
**Calgary, Alberta**  
**Website: <http://www.ucalgary.ca/>**

**Bachelor of Science in:** Biochemistry and Molecular Biology, Biological Sciences, Biomedical Sciences, Chemistry, Biology, Neuroscience, Nursing.

**Alberta Science Degree Entrance Requirements:**

English 30 or ELA 30-1

Pure Mathematics 30

Two of: Biology 30, Chemistry 30, Physics 30, Mathematics 31, or Computing Science ADV (Informatique AVAN) 5 credits

Subject from Group A, B, C or D

**Bachelor of Nursing**

**Entrance Requirements:**

English 30 or ELA 30-1

Pure Mathematics 30

Biology 30

Chemistry 30

Subject from Group A, B, C or D

**Bachelor of Health Sciences**

**Entrance Requirements:**

English 30 or ELA 30-1

Pure Mathematics 30 (with a minimum grade of 70.0%)

Biology 30

Chemistry 30

Subject from Group A, B, C or D

**Bachelor Of Kinesiology: Exercise and Health Physiology**

**Entrance Requirements:**

English 30 or ELA 30-1

Pure Mathematics 30 or Mathematics 31

Biology 30

Chemistry 30

Subject from Group A, B, C or D



**University of Lethbridge**  
**Lethbridge, Alberta**  
**Website: <http://www.uleth.ca/>**

**Bachelor of Science Degrees in: Biochemistry, Biological Sciences, Chemistry, Science, Exercise Science, Kinesiology, Neuroscience, Physics, Psychology, Addictions Counselling, Nursing, and Public Health.**

**Addictions counselling:** The program also has a post-diploma option for graduates of addictions diploma programs at Medicine Hat College, Sir Sandford Fleming College, and Nova Scotia Community College. These students are eligible to enter the post-diploma program and receive a Bachelor of Health Sciences in just two years. Graduates of Keyano College's Native Addictions Worker Diploma are eligible for a 2.5-year extended post-diploma program. Students who have completed similar college diploma programs elsewhere will also be considered for this option.

**Bachelor of Public Health:**

The Bachelor of Health Sciences Public Health Program prepares students for non-clinical work and graduate study in the field of Public Health. This program is the first public health degree offered at the baccalaureate level in Alberta. Successful completion of the four-year baccalaureate program earns students a Bachelor of Health Sciences Public Health (B.H.Sc.) degree.

**Kinesiology**

Biology 30 , Chemistry 30 , Physics 30 (**recommended**) , Pure Mathematics 30 or Mathematics 30-1 (**recommended**)

**Neuroscience**

Biology 30, Chemistry 30 , Pure Mathematics 30 or Mathematics 30-1, Physics 30 (**recommended**), Mathematics 31 (**recommended**)

**Biochemistry**

Biology 30, Chemistry 30, Pure Mathematics 30 or Mathematics 30-1, Physics 30 (recommended)

**Biological Sciences**

Biology 30, Chemistry 30, Pure Mathematics 30 or Mathematics 30-1, Physics 30 (recommended)  
Mathematics 31 (recommended)

**Chemistry**

Biology 30, Chemistry 30, Physics 30, Pure Mathematics 30 or Mathematics 30-1, Mathematics 31 (recommended)

**Exercise Science**

Biology 30, Chemistry 30, Pure Mathematics 30 or Mathematics 30-1  
Mathematics 31 (recommended)

**Psychology**

No high school courses are required to meet prerequisites in the program. You are still required to present high school courses for admission purposes.

**Bachelor of Nursing (NESA)**

Biology 30  
Chemistry 30  
Pure Mathematics 30 or Mathematics 30-1

**Public Health**

Biology 30, Pure Mathematics 30 or Mathematics 30-1

**Addictions Counselling**

One of Biology 30 or Chemistry 30

# BRITISH COLUMBIA



## **Vancouver Island University**

**Nanaimo, BC**

**Website: <http://www.viu.ca/index.asp>**

**Bachelor of Science Degrees in: Biology, Chemistry, Nursing, (4 years)  
Chemistry, Physics, Psychology, offered as Minors only in the B.A. Degree.**

### **Biology, Chemistry:**

Courses in first year have different prerequisites. To satisfy *all* first year course prerequisites, students must complete the following B.C. Secondary School courses: English 12, Biology 11 or 12, Chemistry 12, Math 12 (Principles of Math 12), and Physics 11 (Principles of Physics 11). A minimum grade of C+ is required, except for Math 12 which requires a minimum of "B". Physics 12 is recommended but not required. Some seats are available for students who have only completed Chemistry 11 with a minimum C+.

### **Nursing**

Entrance Requirements: Chemistry 11, Biology 12, English 12, with a minimum C+ and a minimum "C+" in one of Principles of Math 11, Foundations of Math 12, Pre-Calculus 11; or equivalents.

Submission of a satisfactory BSc Nursing [Personal Profile form](#).

Admission rankings are determined by a combination of GPA and Personal Profile scores.



**SIMON FRASER UNIVERSITY**  
THINKING OF THE WORLD

## **Simon Fraser University**

**Burnaby, Surrey, Vancouver, BC**

**Website: <http://www.sfu.ca/>**

## **Bachelor of Health Science**

Entrance Requirements: English 12, Math 12,

### **Bachelor of Science in:**

Kinesiology-Active health and Rehabilitation Concentration

Molecular Biology & Biochemistry

Biomedical Physiology

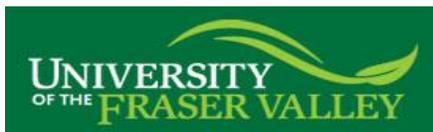
Biological Sciences

Biological Physics

Behavioural Neuroscience

Chemistry

**Faculty of Science Entrance Requirements:** Chemistry 11, Principles of Physics 11, English 12, Principles of Math 12, & two 12 Science Courses



**University of the Fraser Valley**

**Abbotsford, BC**

**Website:** <http://www.ufv.ca/home.htm>

## **Bachelor of Science**

### **Entrance Requirements:**

Completion of the prerequisite for MATH 111 (Principles of Math 12, with a grade of B or better or equivalent). See MATH 111 course listing for other prerequisite options.

Two grade 12 science courses with a minimum grade of C+. Grade 12 sciences are: Biology 12, Chemistry 12, Geography 12, and Physics 12.

### **Bachelor of Science in Biology, Chemistry, Physics**

Principles of Math 12 with a minimum grade of B, or equivalent.

One course, chosen from the following, with a minimum grade of C+: Biology 12, Chemistry 12, Geography 12, or Physics 12.

### **Kinesiology**

The first year of the Bachelor of Kinesiology degree program has a limited number of seats, and accepts students through a competitive entry process. Applicants must have completed the following requirements:

- B.C. Secondary School graduation or equivalent
- English 12 with a B or better

- Principles of Math 11 with a C or better
- Two of: Biology, Chemistry, or Physics 12 with a C+ or better
- Physical Education 11 and/or 12 with a B or better; or, alternatively, participation in a varsity sport at senior secondary level, or on a B.C. Summer or Winter Games team, or on a provincial or national team

### **Bachelor of Science in Nursing (4 years)**

#### **Entrance requirements:**

B.C. secondary school graduation or equivalent with:

-Completion of each of the following courses with a minimum of C+ grade within five years prior to enrolment:

- Biology 12 (UFV BIO 093) or UFV BIO 111
- Chemistry 11 (UFV CHEM 083) or UFV CHEM 105, or 110, or 113

-Math 11 (Principles of Math 11) or UFV MATH 085 with a minimum of C+ grade.

-English 12 (UFV ENGL 091 or ENGL 099) with a minimum of a B grade, or ENGL 105 with a minimum grade of C.



**University of British Columbia**

**Vancouver, BC**

**Website: <http://www.ubc.ca/>**

### **Biology, Midwifery, Human Kinetics, Food and Nutrition Health, Dental Hygiene, Science**

	Grade 12 Courses	Grade 11 Courses
Applied Biology	English 12 or English 12 First Peoples Principles of Mathematics 12 or Pre-Calculus 12 One of Biology 12, Chemistry 12, Geology 12, or Physics 12 One other approved provincially examinable Grade 12 course	English 11 + a language 11 <a href="#">Mathematics 11</a>  Two of Biology 11, Chemistry 11, or Physics 11 An approved Social Studies course

Dental Hygiene	English 12 or English 12 First Peoples Biology 12 Chemistry 12 One other approved provincially examinable Grade 12 course	English 11 + a language 11 Biology 11 Chemistry 11 Mathematics 11 ? An approved Social Studies course Supplemental application
Food, Nutrition and Health	English 12 or English 12 First Peoples Principles of Mathematics 12 or Pre-Calculus 12 One of Biology 12, Chemistry 12, Geology 12, or Physics 12 One other approved provincially examinable Grade 12 course	English 11 + a language 11 Mathematics 11 ? Two of Biology 11, Chemistry 11, or Physics 11 Approved SS course
Human Kinetics	English 12 or English 12 First Peoples One of Principles of Mathematics 12 or Pre-Calculus 12, Biology 12, Geology 12, Chemistry 12, or Physics 12 Two other approved provincially examinable Grade 12 courses	English 11 + a language 11 Mathematics 11 ? An approved Science 11 course An approved Social Studies course
Midwifery	English 12 or English 12 First Peoples Biology 12 Two other approved provincially examinable Grade 12 courses	English 11 + a language 11 Chemistry 11 Mathematics 11 ? An approved Social Studies course Supplemental application
Science	English 12 or English 12 First Peoples Principles of Mathematics 12 or Pre-Calculus 12 (minimum 67%) Two other approved provincially examinable Grade 12 courses, including at least one of	English 11 + a language 11 Mathematics 11 ? Physics 11 and Chemistry 11

Biology 12, Chemistry 12, Geology 12, or  
Physics 12

An approved Social  
Studies course

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### **Aboriginal Applicants**

UBC has long been recognized as a leader in Aboriginal post-secondary education. For over 35 years, the University has developed culturally unique programs and services for First Nations, Métis, and Inuit students, including our Aboriginal Admission Policy.

We welcome all Aboriginal peoples and we encourage all well-qualified students to apply to our programs of study.

Admission to UBC is competitive. Applicants must meet basic and program-specific University [entrance requirements](#), including the competitive average set by their program. Most Aboriginal applicants admitted to UBC meet these requirements.

However, if you meet the basic and program-specific course requirements, but do not meet your program's competitive average, UBC has an Aboriginal Admission Policy that allows programs to evaluate your application individually.

The Aboriginal Admission Policy takes into consideration your educational history, cultural knowledge, work experience, educational goals, and other achievements. This information will be reviewed by a representative from the [First Nations House of Learning](#) and your faculty of choice.

To be considered through the Aboriginal Admission Policy, you must complete the Aboriginal Supplemental Application Form. Many programs at UBC have supplemental applications for all applicants. Some of these programs do not require Aboriginal applicants to fill out both.



**University of Northern BC**  
**Prince George, BC**  
**Website: <http://www.unbc.ca/>**

### **Bachelor of Health Science**

#### **Entrance Requirements:**

English 12♦ Principles of Mathematics 11 Three Approved Grade 12 Courses\* A fifth Grade 12 course\*\* Minimum admission average 65%

### **Bachelor of Science**

#### **Entrance Requirements:**

English 12♦ Three Approved Grade 12 Courses\* A fifth Grade 12 course\*\* Minimum admission average: 65%

## **Bachelor of Science in Nursing**

### **Entrance Requirements:**

Principles of Mathematics 11 (65% minimum) Chemistry 11 (65% minimum) Biology 12 (65% minimum) Two other approved\* Grade 12 courses A fifth Grade 12 course\*\* Minimum admission average 65%



**University  
of Victoria**

### **University of Victoria**

**Victoria, BC**

**Website: <http://www.uvic.ca/>**

### **Health Information Science**

Health Information Science is the study of how health data are collected, stored and communicated; how those data are processed into health information suitable for administrative and clinical decision making; and how computer and telecommunications technology can be applied to support these processes. Students learn to identify what information and data are needed by doctors, nurses, hospital administrators, government planners and other health care professionals and how they are used in order to make effective health care decisions.

**Entrance Requirements:** Mathematics 12

Information technology 12, Biology 11 and 12 are recommended but not required.

### **Nursing**

The University of Victoria School of Nursing is a partner in the Collaboration for Academic Education in Nursing (CAEN) in the province of British Columbia and the Northwest Territories. UVic teaches the latter two years of the BSN degree for CAEN students continuing from Camosun College, Selkirk College, Aurora College and College of the Rockies. Vancouver Island University (in conjunction with North Island College), UBC-Okanagan (formerly Okanagan University College) and Thompson Rivers University (formerly University College of the Cariboo) teach the entire four-year BSN degree.

**Entrance Requirements:** Meet UVic admission requirements (including the UVic English requirement) when entering the School of Nursing at UVic.

-Successfully complete all courses in the CAEN Terms One through Five, and the two consolidated practice experiences, with a cumulative grade point average (GPA) equivalent to 3.0 on the UVic 9.0 point scale. (Please note that college and UVic GPAs may not be equivalent. UVic includes repeated and failed courses in the GPA calculation for all required CAEN courses including the required English, Biology and electives). Students who fail any required CAEN course must successfully repeat that course prior to acceptance to UVic. Students who fail a nursing practice course in Terms One through Five will be placed on nursing practice probation for the duration of their program at UVic. The privilege to repeat a failed nursing practice

course is allowed only once in the program (Years One to Four). Admission to the BSN program is provisional pending receipt of an official transcript indicating satisfactory completion of Term five.

**Bachelor of Science in Biology, Chemistry, Biochemistry, Microbiology**

**Entrance Requirements:**

English 4U, Advanced Functions 4U, two of the following: Biology 4U, Chemistry 4U, Earth and Space Science 4U, or Physics 4U, two additional 4U/M courses

# MANITOBA



## **Brandon University**

**Brandon, MB**

**Website: <http://www.brandonu.ca/home/>**

### **Bachelor of Science in Biology, Chemistry, Psychology**

Manitoba applicants for regular admission must satisfy the following minimum requirements: High School graduation as recognized by Manitoba Education and Training with no "M" or "I" courses in the program or Grade 12 equivalency (G.E.D.) as recognized by Manitoba Education and Training.

**Contact the Admissions Office for more information: [admissions@brandonu.ca](mailto:admissions@brandonu.ca) or 204-727-9784**

### **Bachelor of Science in Psychiatric Nursing**

Students interested in pursuing a Degree in Psychiatric Nursing must complete a pre-Psychiatric Nursing year and are required to meet with the Bachelor of Psychiatric Nursing Student Advisor prior to course registration. Satisfactory completion of a Criminal Record Check and a Child Abuse Registry Check is required prior to the application into second year.

### **Bachelor of Nursing**

Students interested in pursuing a Degree in Nursing must complete a pre-nursing year first and are required to meet with the Bachelor of Nursing Student Advisor prior to course registration. Satisfactory completion of a Criminal Record Check and a Child Abuse Registry Check is required prior to the application into second year.

### **Indigenous Health & Human Services (IHHS)**

A new and innovative program that provides instruction in Indigenous perspectives of holistic health and wellness; traditional approaches to healing and Western intervention theories and skills. **Students interested in pursuing a Degree in Indigenous Health & Human Services are required to submit:** Information sheet or resume, Official transcript(s), 500 word essay, 2 letters of reference, Criminal Record Check, Child Abuse Registry Check



UNIVERSITY  
OF MANITOBA

**University of Manitoba**

**Winnipeg, MB**

**Website: <http://umanitoba.ca/>**

**Biology, Biochemistry, Chemistry, Health sciences, Health studies, Human Nutritional Sciences, Kinesiology, Nursing, Pharmacy, Dental Hygiene, Respiratory Therapy.**

**Respiratory Therapy program:** provides a focused study of human anatomy and physiology, the medical sciences, and therapeutic and diagnostic techniques related to respiratory, cardiovascular, and other related medical disorders. The program prepares students for the profession by integrating clinical skills and techniques with theoretical knowledge throughout the three years of professional study. Clinical education components include; intensive care, emergency care, chronic care, primary care, home care, pulmonary diagnostics, anaesthesia technology, and patient transport. (Have to complete one full year of undergraduate studies)

**See admissions brochure for entrance requirements for all programs:**

[http://www.umanitoba.ca/student/admissions/media/requirements\\_mb.pdf](http://www.umanitoba.ca/student/admissions/media/requirements_mb.pdf)



THE UNIVERSITY OF  
WINNIPEG

**U Of Winnipeg**

**Winnipeg, MB**

**website: <http://www.uwinnipeg.ca/>**

**Biochemistry, Biology, Biopsychology, Chemistry, Medical Biophysics, Radiation health & safety, Psychiatric Nursing**

**Admission Requirements:**

Be a high school graduate with at least **30 Manitoba high school credits** and,

- Have completed **five credits at the Grade 12 level**, designated A, S or G level (of which three must be 40S)

- Present a **minimum one credit of core English** (one of Comprehensive Focus, Literary Focus or Transactional Focus 40S) and **one credit of Mathematics 40S** (Pre-Calculus, Applied, or Consumer)
- Have an **average of at least 65% on the best three** 40S courses including both core English 40S and Mathematics 40S, plus one other 40S credit from a different subject area

### **Program Fact Sheets Listed Below**

#### **Radiation Health & Safety:**

<http://www.uwinnipeg.ca/index/cms-file-system-action/pdfs/factsheets/factsheet-radiation-health-and-safety.pdf>

#### **Medical Biophysics:**

<http://www.uwinnipeg.ca/index/cms-file-system-action/pdfs/factsheets/factsheet-medical-physics.pdf>

#### **Radiation Therapy:**

<http://www.uwinnipeg.ca/index/cms-file-system-action/pdfs/factsheets/factsheet-radiation-therapy.pdf>

#### **Psychiatric Nursing:**

<http://www.uwinnipeg.ca/index/cms-file-system-action?file=pdfs/factsheets/factsheet-psychiatric-nursing.pdf>

#### **Biopsychology:**

<http://www.uwinnipeg.ca/index/cms-file-system-action?file=pdfs/factsheets/factsheet-biopsychology.pdf>

#### **Biochemistry:**

<http://www.uwinnipeg.ca/index/cms-file-system-action?file=pdfs/factsheets/factsheet-biochemistry.pdf>

#### **Biology**

<http://www.uwinnipeg.ca/index/cms-file-system-action?file=pdfs/factsheets/factsheet-biology.pdf>

# NEW BRUNSWICK



**Mount Allison University**  
**Sackville, New Brunswick**  
**Website: <http://www.mta.ca/>**

**Bachelor of Science: Biology & Biochemistry, Chemistry, Cognitive Science, And Psychology**

**Entrance Requirements:**

Two university-preparatory courses in Sciences and one in either the Humanities or Social Sciences Strongly recommended: Two university-preparatory courses in Sciences and one in either the Humanities or Social Sciences.

# Newfoundland



**Memorial University of Newfoundland**  
**Valley Goose Bay, Labrador West, St. John's, Grenfall, NFLD**  
**Website: <http://www.mun.ca/>**

**Bachelor of Kinesiology, Bachelor of Science in Nursing (4 years)**  
**Bachelor of Science Programs: Biochemistry, Biology, Chemistry, Psychology, Science (3 & 4 years)**

## **High School Applicants**

Applicants from High School may apply for admission only to the Bachelor of Nursing (Collaborative) four year program.

High School applicants to the Bachelor of Nursing (Collaborative) program must have completed a high school diploma, or its equivalent, as certified by the Department of Education of Newfoundland and Labrador. High School Advanced Math is preferred and science courses must include:

- Biology 2201 and 3201 or their equivalents
- Chemistry 3202 or equivalent

High school applicants to the kinesiology degree programs must have completed:

- Level III Laboratory Science with a grade of at least 70%, and either
- Level III Advanced Mathematics, or Level III Academic Mathematics with a grade of at least 70%, or Level III Academic Mathematics and a score on the Mathematics Placement Test acceptable to the Department of Mathematics and Statistics. For further information on the Mathematics Placement Test contact the Department of Mathematics and Statistics.

At our St. John's Campus admission to all major programs within the Faculty of Science is upon formal application to the respective departments after completion of the departmental admission requirements.

**\*\*Please Note\*\***Students are normally admitted to the department of a major program upon successful completion of 10 university courses which must include: two English courses, two mathematics courses and two courses in each of two sciences\*\*

Admission to certain major programs within the faculty is limited and competitive.

**\*\*Memorial has direct entry for all science programs offered at Sir Wilfred Grenfell College in Corner Brook\*\***

For more information contact:

Faculty of Science  
St. John's Campus  
Phone: (709) 737-8153 or 737-8154  
E-mail: [science@mun.ca](mailto:science@mun.ca)  
[www.mun.ca/science](http://www.mun.ca/science)

# NOVA SCOTIA



**Acadia University**

**Wolfville, Nova Scotia**

**Website: <http://www2.acadiau.ca/index.php>**

**Bachelor of Science Degrees in Biology, Chemistry, Nutrition, Psychology, Physics**

**Bachelor of Kinesiology**

**General admission guidelines applicable to all programs:**

- 12 English or English 12: African heritage
- Four additional Grade 12 Academic or Advanced courses
- Minimum overall average of 70%

**Entrance Requirements:**

**Biology** – Grade 12 Academic or Advanced Mathematics and Chemistry 12 (applicants without Chemistry 12 will be considered on an individual basis).

**Chemistry** – Pre-calculus 12 and Chemistry 12 (applicants without Chemistry 12 will be considered on an individual basis).

**Kinesiology** - Grade 12 Academic or Advanced Mathematics.

**Nutrition** – Grade 12 Academic or Advanced Mathematics and Chemistry 12 (applicants without Chemistry 12 will be considered on an individual basis).

**Physics** – Pre-calculus 12. Physics 12 recommended.

**Psychology** (BSc program only) - Grade 12 Academic or Advanced Mathematics.



**Dalhousie University**  
**Halifax, Nova Scotia**  
**Website: <http://www.dal.ca/>**

### **Bachelor of Health Sciences: In Diagnostic Cytology (4 years)**

A cytotechnologist is a medical laboratory technologist who specializes in detecting and diagnosing cancer at a cellular level.

A cytotechnologist is a member of the health care team, qualified by academic and clinical training.

#### **Entrance Requirements:**

Students wishing to study at Dalhousie must have a high school completion certificate with at least 5 university preparatory courses at the Grade XII level.

For the study of Diagnostic Cytology, four courses must include English, Math, Biology and Chemistry.

Applicants are expected to have an overall minimum average of 70%.

Priority is given first to Nova Scotia residents, then to residents of Canada, then to all other applicants.

### **Diagnostic Medical Ultrasound (4 years)**

The Diagnostic Sonographer utilizes high frequency sound waves, specialized equipment and other diagnostic techniques to collect detailed information on the anatomical, physiological and pathological state of the patient. This health care professional is able to produce and evaluate ultrasound images and related data that are used by specialized physicians to render a medical diagnosis.

#### **Entrance Requirements**

- Students wishing to study at Dalhousie must have a high school completion certificate with at least 5 university preparatory courses at the Grade XII level.
- Post-secondary students must have a GPA of 2.75 (on a 4.30 scale), with no grade lower than a C in prerequisite courses.
- For the study of Diagnostic Medical Ultrasound, four courses must include English, Math, Physics and Biology. No mark in any of these courses below 70%, with an overall minimum average of 75%.
- Priority is given first to residents of the Maritime Provinces, then to residents of Canada, then to all other applicants.

### **Nuclear Medicine (4 years)**

A nuclear medicine technologist is a health care professional who uses substances labelled with

radioactive tracers, called radiopharmaceuticals. These radiopharmaceuticals are used to evaluate and aid in the diagnosis and treatment of a variety of diseases.

**Entrance Requirements:**

Students wishing to study at Dalhousie must have a high school completion certificate with at least 5 university preparatory courses at the Grade XII level. Post-secondary education students must have a GPA of 2.75 (on a 4.30 scale), with no grade lower than a C in prerequisite courses.

For the study of Nuclear Medicine, four courses must include English, Math, Physics and Chemistry. No mark in any of these courses below 70% with an overall average of 75%.

Priority is given first to residents of the Maritime Provinces, then to residents of Canada, then to all other applicants.

**Radiological Technology (4 years)**

The radiological technologist is a health care professional who utilizes radiation to produce images of patient's anatomical structures. The quality of the image is critical as it will assist physicians in the diagnosis/treatment of the disease or injury.

**Entrance Requirements:**

Students wishing to study at Dalhousie must have a high school completion certificate with at least 5 university preparatory courses at the Grade XII level.

For study of radiological technology four courses must include English, Math, Physics and either Biology or Chemistry. No mark in any course below 70%, with an overall minimum average of 75%.

Post-secondary students must have a GPA of 2.75 (on a 4.30 scale), with no grade lower than a C in pre-requisite courses.

Priority is given first to residents of the Maritime Provinces, then to residents of Canada, then to all other applicants.

**Respiratory Therapy (4 years)**

Respiratory therapists (RTs) are highly skilled health care professionals who help people with their breathing. RTs care for patients by evaluating, treating and maintaining heart and lung function. They treat all age groups, from newborns to the elderly.

**Entrance Requirements:**

Students must have a high school diploma which includes English, Math, Chemistry and either Biology or Physics at the grade 12 level. Acceptance requires no mark below 70% in each of these courses with an overall minimum average of 75%. Post Secondary students must have a GPA of 2.75 (on a 4.30 scale), with no grade lower than a C in prerequisite courses. Acceptance is offered to residents of the Maritime Provinces, then to residents across Canada, then to all other applicants.

**Bachelor of Science in Health Promotion (40 seats)**

The program consists of specialized courses related to various health issues and a core set of courses that deal with the professional skills, health policy issues and the disciplinary content of

the health promotion field as well as other science , social science and humanities courses required for a BSc program.

#### Admission Requirements

The minimum requirements for **high school applicants** is completion of Nova Scotia Grade XII (or equivalent) with an average of 70% in at least five university preparatory subjects, including

- minimum of 70% in English
- minimum of 70% in Biology or Chemistry

#### **Bachelor of Science in Nursing (4 years)**

Required courses: Academic grade 12 English, math, biology and chemistry each with a minimum mark of 70%; and

Minimum overall average: 70% based on the four required courses listed above and one other grade 12 academic subject.

**The Bachelor of Science in Nursing (Arctic Nursing)** is offered in partnership with Dalhousie University. The program is designed to educate Inuit as nurses to respond to the health care needs of the people of Nunavut. The curriculum emphasizes awareness and respect for the Inuit culture and will prepare Inuit nurses to be leaders in the health care system of Nunavut. Students may exit after three years with a diploma in Nursing from Nunavut Arctic College and will be prepared to provide hospital-based nursing services. The BScN (Arctic Nursing) will be granted by Dalhousie University and will provide nurses with the necessary skills to provide primary health care in a community health centre.

#### **Entrance Requirements**

18 years of age or older

- speak, read and write Inuktitut/Inuinnaqtun (an asset)

#### **Must Submit:**

- 1) a letter of interest;
- 2) letters of reference from an employer or other authority; and
- 3) a letter of support from the Regional Health Board, Community Health Committee, or community health care professional
- 4) have an academic grade 12 diploma with credits in Math, English and Science; or have successfully completed the Health Careers Access Year Program. Equivalencies may be considered.
- 5) Pass criminal records check by the RCMP
- 6) have a current immunization

# ONTARIO



**Algoma University**  
**Sault Ste. Marie, Ontario**  
**[www.algomau.ca](http://www.algomau.ca)**

## **Aboriginal Student Resources – Shingwauk Anishnaabe Student’s Association**

- To provide cultural, social & academic support for all Anishinaabe students.
- To increase Anishinaabe student participation in all aspects of the university.
- To encourage communication with other Anishinaabe post-secondary organizations.
- To assist Anishinaabe students with adjusting to the university environment.
- To strengthen cultural awareness between Anishinaabe students and non-Anishinaabe students.

**SASA Website:** <http://www.algomau.ca/current-students/anishinaabe-students-assoc>

**Biology -3 year-2 U or M Science courses, 1 U Math, Minimum 65%**

**Psychology - B.A. or B.Sc.- B.A -ENG4U, min 65%**

**BSc: MHF4U, 2U or M Science, ENG4U min 65%**

For more information: <http://www.algomau.ca/future-students/how-to-apply#admitreqs>



**Brock University**  
**St. Catharine’s, Ontario**  
**[www.brocku.ca](http://www.brocku.ca)**

## **Aboriginal Student Services (ABSS)**

At ABSS you will find an aboriginal student advisor as well as an aboriginal education counsel that can assist all aboriginal students in the transition to university.

Website: <http://www.brocku.ca/aboriginal-student-services>

## Health Programs at Brock University

### **Bachelor of Kinesiology**

Kinesiology is a science that studies the human body and how it moves and functions. Interests in this discipline reflect a growing understanding about how exercise and physical activity affects overall health. In Ontario kinesiology is a regulated health profession under the Kinesiology Act. It defines it as the assessment of human movement and performance. The Bachelor of Kinesiology emphasizes the biophysical, behavioural and socio-cultural aspects of kinesiology including exercise prescription and rehabilitation, fitness programming and clinical assessment. This degree is designed to train effective health professionals who will successfully transfer the scientific theory to practice in all settings and populations.

**Entrance Requirements:** ENG4U, SBI4U, one 4U Math. Strongly recommended subject: PSE4U  
Expected cut-off – low 80's

### **Bachelor of Public Health –Honours-**

The program focuses on individual, community and population health and wellness emphasizing health promotion, health administration, health policy, and health programming and evaluation.

If you are interested in learning the science and art of promoting health, preventing disease, and protecting and improving the health of a community, a degree in Public Health will meet your needs. You will gain insight into important public health issues that affect both local and international community's every day. Courses in infectious disease, sexuality, health policy, and aging are viewed from a public health perspective.

Opportunities for self-directed study, internships with community partners, and international study placements are available. Students are prepared for careers in a broad range of community and public health fields, and postgraduate study in health-related disciplines.

**Entrance Requirements:** ENG4U, one of SBI4U or SCH4U. Expected grade cut off is mid 70's. Strongly recommended subjects: SNC4M or PSE4U, and one 3U Math.

### **Bachelor of Science in Biochemistry**

The program will begin with a set of core chemistry, cell biology and molecular biology courses. In third and fourth years, you may emphasize either biology or chemistry. You can choose from a wide selection of courses that include studies in metabolism and energy flow, proteins and enzyme action, macromolecular structures, information flow and molecular genetics, and bio-organic and biophysical chemistry.

#### **Entrance Requirements:**

MHF4U or MCV4U (min. 70%), SCH4U (min. 70%), two from SBI4U, SPH4U, SES4U, a second 4U math or ENG4U. Recommended: ENG4U

Applicants with 65-69% in SCH4U will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1P92.

Biochemistry (Co-op): The Biochemistry Co-op program allows you to combine academic and work terms, and gain valuable work experience. As a co-op student, your degree will be completed in five years, and will include three 4-month work terms. You will complete four academic terms before beginning your first work placement

### **Bachelor of Science in Biological Sciences**

As a Biological Sciences student, you will share in the success of a program that is ranked highly among undergraduate Canadian universities in medical and science research grants.

You will have access to superbly equipped modern labs and the teaching and research knowledge of professors who have received provincial and national acclaim for their work. Lectures, laboratories, and field studies introduce you to the breadth of Biological Sciences in the first two years after which you can design your program from a large selection of courses in areas such as biochemistry; cell biology; developmental biology; animal, plant and microbial physiology; genetics; molecular biology; neurobiology; ecology; animal behaviour; and bioinformatics.

**Entrance Requirements:** MHF4U or MCV4U (min. 70%), SCH4U (min. 70%), two from SBI4U, SPH4U, SES4U, a second 4U math or ENG4U. ENG4U strongly recommended.

Applicants with 65-69% in SCH4U will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1P92.

### **Bachelor of Science in Biomedical Sciences**

This program is intended for students interested in a career in medicine or biomedical research. The program is being offered jointly by the Departments of Biological Sciences and Community Health Sciences and is focused on the molecular basis of human health. It draws on the expertise of the Department of Community Health Sciences in the medical aspects of human health and the Department of Biological Sciences in the theory, methods and applications of molecular genetics.

**Entrance Requirements:**

MHF4U or MCV4U (min. 70%), SCH4U (min. 70%), two from SBI4U, SPH4U, SES4U, a second 4U math or ENG4U. ENG4U strongly recommended.

Applicants with 65-69% in SCH4U will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1P92.

### **Bachelor of Science in Biophysics**

Biophysics is the physics of life, of all living systems and their interaction with their surroundings, both natural and artificial. It is a relatively new, but rapidly advancing field encompassing a wide variety of areas in natural and life sciences and uses all methods of scientific inquiry: theory, experiment and large scale computer simulation to understand living systems at the molecular level. Biophysics also forms the basis of many aspects of Medical

Physics, another rapidly developing field in much demand at the current time. Brock's biophysics program will provide students with a superb learning environment and exciting research opportunities. Extended research opportunities are available through Brock's participation in the Interdepartmental Biophysics Group (BIG) based at the University of Guelph.

**Entrance Requirements:**

MHF4U or MCV4U (min. 70%), SCH4U (min. 70%), two from SBI4U, SPH4U, SES4U, a second 4U math or ENG4U. ENG4U & SPH4U strongly recommended.

Applicants with 65-69% in SCH4U will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1P92.

**Bachelor of Science in Biotechnology**

Biotechnology is the use of living organisms or their products to produce goods and services for practical and industrial purposes. Biotechnology can provide unique products, and is also used as a green alternative to older processes that wasted energy and polluted the environment. It is considered a strategic technology and an important economic component of industrialized nations. The Brock Biotechnology program is the only undergraduate degree in Ontario focusing on Biology and Chemistry. The Departments of Biology and Chemistry have developed this joint program to provide you with courses from both disciplines, in addition to courses that have been designed specifically for the program.

As a Biotechnology student you will experience a broad range of scientific techniques such as gene and protein engineering, biotransformation, enzyme and antibody technology, and much more.

**Entrance Requirements:**

MHF4U or MCV4U (min. 70%), SCH4U (min. 70%), two from SBI4U, SPH4U, SES4U, a second 4U math or ENG4U. ENG4U strongly recommended.

Applicants with 65-69% in SCH4U will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1P92.

**Biotechnology Co-op:** The Co-op program allows you to combine academic and work terms, and gain valuable work experience. As a co-op student, your degree will be completed in 5 years, and will include three 4-month work terms. You will complete four academic terms before beginning your first work placement.

**Bachelor of Science in Chemistry**

Through the study of chemistry you will develop an understanding of the nature of elements and compounds by synthesizing, analyzing, and measuring their properties. During the course of your studies you will discover chemistry's role in finding solutions to some of the most challenging issues we face as a society. Undergraduate students are key partners in our research activities, participating in special research courses and paid summer research. You might have the opportunity to co-author a publication!

If your focus is on the environment, the BSc Honours in Chemistry-Environmental Stream will be of interest. The Chemistry Co-op program allows you to combine academic and work terms,

and gain valuable work experience. As a co-op student, your degree will be completed in four and one-half to five years and will include three 4-month work terms. You will complete two to four academic terms before beginning your first work placement.

**Entrance Requirements:**

MHF4U or MCV4U (min. 70%), SCH4U (min. 70%), two from SBI4U, SPH4U, SES4U, a second 4U math or ENG4U. ENG4U and a second 4U math strongly recommended.

Applicants with 65-69% in SCH4U will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM 1P00) prior to enrolling in CHEM 1P92.

**Bachelor of Science in Health Sciences**

Brock's Health Sciences program combines courses from the Department of Community Health Sciences and the Faculty of Mathematics and Science, to provide a pre-health professional degree with a bioscience perspective. Designed for students who intend on continuing their studies in medicine or applied health professions like physiotherapy or chiropractics, Health Sciences provides a strong focus on the biophysical bases of health. By studying courses related to anatomy, physiology, chemistry, biology, and other related health sciences, you will be prepared for the post-graduate program of your choice.

If you plan to pursue a career in a specific health profession, you may wish to team up this degree with our one-of-a-kind MED Plus program.

**Entrance Requirements:** ENG4U, SBI4U, SCH4U (min. 70%), one 4U math (MDM4U preferred). PSE4U strongly recommended.

**Bachelor of Science in Neuroscience**

Neuroscience attempts to determine how the nervous system generates and controls animal and human behaviour, and other functions of the body.

The Neuroscience program at Brock adopts a multi-disciplinary approach specifically designed to permit the integration of information derived experimentally from many disciplines. The program combines courses from the areas of biology, anatomy, physiology, pharmacology, psychology and kinesiology to illustrate molecular, cellular, neurophysiologic, behavioural and cognitive approaches to examining the nervous system.

The Neuroscience program provides information and skills necessary for careers in the health and behavioural sciences, as well as preparing students for further studies.

The Neuroscience Co-op program provides valuable work experience by combining academic and work terms over a five-year period. As a co-op student you will complete four academic terms prior to beginning your first work placement.

You may wish to team up this degree with our one-of-a-kind MED Plus program.

**Entrance Requirements:**

MHF4U or MCV4U (min. 70%), SCH4U (min. 70%), two from SBI4U, SPH4U, SES4U, a second 4U math or ENG4U. ENG4U strongly recommended.

Applicants with 65-69% in SCH4U will be considered for admission, but will be required to pass a chemistry proficiency test or complete Introductory Chemistry (CHEM `P00) prior to enrolling in CHEM 1P92.

**Neuroscience Co-op program:** It provides valuable work experience by combining academic and work terms over a five-year period. As a co-op student you will complete four academic terms prior to beginning your first work placement.

**Bachelor of Science in Nursing:**

The Department of Nursing offers an Honours Bachelor of Science in Nursing (BScN) degree. Students wishing to pursue the four-year BScN degree will complete their first two years at the Brock University campus or collaboratively at the Loyalist College campus in Belleville, Ontario. Upon successful completion of the first two years students will be admitted to the final two years of the program at the Brock campus.

In addition to clinical placements, students will be exposed to many different aspects of nursing including acute care, child and family health, complex continuing care, mental health, and community health.

Graduates will be eligible to write the Canadian Registered Nurse Examination.

**Entrance Requirements:**

ENG4U, SBI4U, SCH4U (min 70% in each required course). One 4U math is strongly recommended.

**Bachelor of Public Health:**

The Bachelor of Public Health (BPH) (Honours) focuses on individual, community and population health and wellness emphasizing health promotion, health administration, health policy, and health programming and evaluation. If you are interested in learning the science and art of promoting health, preventing disease, and protecting and improving the health of a community, a degree in Public Health will meet your needs. You will gain insight into important public health issues that affect both local and international communities every day. Courses in infectious disease, sexuality, health policy, and aging are viewed from a public health perspective. Opportunities for self-directed study, internships with community partners, and international study placements are available. Students are prepared for careers in a broad range of community and public health fields, and postgraduate study in health-related disciplines.

**Entrance Requirements:**

ENG4U, one of SBI4U or SCH4U. Strongly recommended subjects: SNC4M or PSE4U, one 3U Math.



**Carleton University**  
**Ottawa, Ontario**  
**[www.carleton.ca](http://www.carleton.ca)**

### **Bachelor of Science General in Biology- 3 years**

Biology plays a dominant role in our rapidly changing world. Biologists probe the basic units of life - cells - to understand how they work, how they age, and why they may change to produce cancers. Biologists are unlocking the DNA codes of all organisms and developing new tools for DNA manipulation and analysis with many uses from police applications of forensic science to the diagnosis of disease and the development of gene therapies.

### **Bachelor of Science General in Chemistry - 3 years**

Chemistry examines the processes that produce our food, clothes, medicine, and hundreds of new materials we use every day. Chemists have developed compounds that save lives and reduce suffering, such as cortisone and penicillin.

### **Integrated Science: Health Science (3 or 4 years)**

The explosion in scientific information and its applications is creating a need for people who not only possess a strong background in science but who are able to apply their scientific understanding to other areas. Integrated Science (IS) at Carleton responds to this need. Health Science field of study combines a science sequence drawn from the life sciences (biology, biochemistry and chemistry, psychology) and a non-science sequence from the social sciences (psychology, sociology, and/or business).

### **Biochemistry (4 years)**

The science of biochemistry seeks to understand how organisms function by investigating chemical reactions and cellular structures at the molecular level. It asks how animals, plants, and bacteria make use of energy to grow, work, and reproduce. Many of the biochemist's findings are of direct relevance to humanity- to understand disease, improve food production, and find new techniques to produce valuable products like vitamins and antibiotics. The biochemistry programs are one of the best training options for entry into medicine and other health sciences professional programs.

### **Psychology**

Carleton's undergraduate programs in psychology introduce students to the study of behaviour and mental processes from the social science and biological science orientations. There are specializations in behavioural neuroscience; learning and cognition; social psychology; developmental psychology; community psychology; personality; and human assessment. Psychology programs provide students with an excellent core for a liberal education and preparation for advanced studies, scientific research, or professional training.

### **Neuroscience (4 years)**

Neuroscience applies the basic principles of biology, chemistry, physics, and psychology to the study of the nervous system and how it functions. This multidisciplinary field presents many challenging questions in areas such as learning and memory, neurological disease, and neural development.

**Entrance Requirements Honours:** Advanced Functions (MHF4U), two credits from Biology (SBI4U), Chemistry (SCH4U), Earth and Space Science (SES4U) or Physics (SPH4U)(Calculus [MCV4U] strongly recommended)

**Entrance Requirements General & Majors:** Advanced Functions (MHF4U), Two credits from Calculus and Vectors (MCV4U), Biology (SBI4U), Chemistry (SCH4U), Earth and Space Science (SES4U) or Physics (SPH4U)  
(Calculus [MCV4U] is recommended)

### **Services for Aboriginal Students**

The Aboriginal Student centre: the centre advocates Aboriginal issues on campus and strives to improve the quality of Aboriginal students' experiences at Carleton by providing peer support and the opportunity to participate in the Centre's events.

<http://www.cusaonline.com/aboriginalcentre/>

The Aboriginal Student Council (ASC) of Carleton University comprises a group of students who wish to promote Aboriginal culture on campus and have "Clubs and Societies" status with Carleton University Student Association (CUSA).

Aboriginal Lounge: The Lounge offers a place to study, computers with Internet access and modem for laptop connections. There is a printer (you must provide your own paper), a phone for local outgoing calls, a microwave and a refrigerator. You will also find some comfortable chairs to relax on and a television and VCR for those who want to watch course lectures or a favorite video.

The university has cultural liaison officers on campus.

### **Aboriginal Enriched Support Program**

The AESP ancillary to the Enriched Support Program (ESP) offers an opportunity for Aboriginal students to take a supported first year of university studies. The AESP provides access to university studies, as well as a unique opportunity to study Aboriginal topics with other Aboriginal students, while in the first year of study. Like the ESP, the AESP program includes tutoring and advising, support workshops and personal contact with administrators and instructors. AESP special program features include a first-year seminar dedicated to Aboriginal topics and taught from an Aboriginal point of view, as well as a peer mentor program to connect students with Carleton's Aboriginal community and resources.



**Lakehead University**  
**Thunder Bay, Ontario**  
**[www.lakeheadu.ca](http://www.lakeheadu.ca)**

Aboriginal Cultural & Support Services (ACSS) has been a part of Lakehead University since 1987. Its goal is to provide a culturally supportive environment to all Aboriginal students who are Status, Non-Status, Inuit, and Métis. ACSS assists Aboriginal students in successfully achieving their academic goals by providing a variety of services. These services are extended to all students as well as to those interested in learning more about Aboriginal culture.

#### **Academic Services**

Application, Course selection, registration assistance, weekly study nights, academic workshops and tutorial referrals, advocacy, assistance, and referrals dealing with professors, student affairs, departments, and first nation education counsellors, assistance with appeals, withdrawals and special consideration.

#### **Individual services**

Transitional support finding daycare, housing and other needs, on & off campus referrals; help with applications for funding and applying for OSAP, aboriginal counsellor for personal counselling needs.

#### **Cultural Services**

Elder on site for support, feasts, cultural workshops, native student association, sweat lodge ceremonies and smudging.

#### **Kinesiology**

**Entrance Requirements:** 1 credit Gr. 12 U in each of: English and Math; 2 credits from Gr. 12 U Biology, Chemistry, Exercise Science, Physics; 2 additional Gr. 12 U or M credits

#### **School of Nursing**

The School of Nursing currently offers a four year BScN program in collaboration with Confederation College, a three year compressed BScN program, a two year BScN program for diploma prepared Registered Nurses, a Nurse Practitioner Program, a Masters in Public Health with a Specialization in Nursing, and a Native Nurses Entry Program. Some of the programs are even offered through distance delivery modes.

#### **Entrance Requirements:**

1 credit Gr. 12 U in each of: English, Chemistry, Biology; 1 credit Gr. 11 U or M Math; 3 additional Gr. 12 U or M credits

- Current Basic Cardiac Life Support Certificate

The Department of Psychology offers undergraduate programs in both Arts and Science leading to Bachelor, Honors Bachelor, and Honors Bachelor with Specialization in Psychology degree, and graduate programs leading to degrees in the Master of Science in Experimental Psychology,

Master of Arts in Clinical Psychology, and PhD in Clinical Psychology. The PhD Clinical Psychology program is fully accredited by the [Canadian Psychological Association](#).

**Entrance Requirements:** 1 credit each in Gr. 12 U English and Gr. 12 U Advanced Functions; 2 credits from: Gr. 12 U Chemistry, Gr. 12 U Biology, Gr. 12 U Physics, Gr. 12 U Calculus & Vectors, Gr. 12 U Math of Data Management (one of Gr. 12 U Biology or Chemistry recommended); 2 additional Gr. 12 U or M credits

### **Bachelor of Science Degrees in Biology and Chemistry- 3 & 4 year programs**

**Chemistry Entrance Requirements:** - 1 credit each in Gr. 12 U English, Gr. 12 U Advanced Functions, Gr. 12 U Chemistry; 1 credit from: Gr. 12 U Biology, Gr. 12 U Physics, Gr. 12 U Calculus & Vectors, Gr. 12 U Math of Data Management (Gr. 12 U Biology & Physics recommended); 2 additional Gr. 12 U or M credits

**Biology Entrance Requirements:** - 1 credit each in Gr. 12 U English and Gr. 12 U Advanced Functions; 2 credits from: Gr. 12 U Chemistry, Gr. 12 U Biology, Gr. 12 U Physics, Gr. 12 U Earth & Space Science, Gr. 12 U Calculus & Vectors, Gr. 12 U Math of Data Management (Gr. 12 U Biology, Chemistry & Physics recommended); 2 additional Gr. 12 U or M credits



**Laurentian University**

**Sudbury, Ontario**

**[www.laurentian.ca](http://www.laurentian.ca)**

**[www.normed.ca](http://www.normed.ca)**

**[www.uhearst.ca/](http://www.uhearst.ca/)**

### **Bachelor of Science Programs**

Behavioural Neuroscience, Biochemistry, Biology, Biomedical Biology, Chemistry, Required Courses- English, Advanced Functions, Mathematics, Science, or English, Advanced functions & 2 Sciences

Min Average 70%

### **Health Promotion**

#### **Bachelor of physical and health education**

English, chemistry, biology, min average 78%

enrolment limit: 20

For additional requirements see program calendar

### **Human Kinetics**

Required Courses- English, Advanced Functions, Chemistry, Physics

min average 78%

enrolment limit: 20

Additional requirements see program calendar

### **Bachelor of Science in Nursing**

English, Biology, Chemistry

min average 70%

Bachelor of Science/Diploma – Radiation Therapy in conjunction with the Michener Institute  
English, Physics, Chemistry, Biology, Advanced Functions Min 70% average.



**McMaster University**  
**Hamilton, Ontario**  
**www.mcmaster.ca**

### **Bachelor of Health Sciences**

**Entrance Requirements:** English, One of Advanced Functions, Calculus & Vectors, or Mathematics of, Data Management, Biology, Chemistry, One non-math & non-science credit  
Min 90%

### **Medical radiation sciences**

Medical Radiation Sciences (MRSc) encompasses the health professions that employ various forms of radiation in diagnostic and therapeutic care of patients. Currently, students are streamed into one of three professional specialization: radiography, ultrasonography or radiation therapy. MRSc is one of the fastest growing primary health care fields. Innovations in information technology, digital imaging, instrumentation and cancer management have made MRSc one of the most dynamic areas of health care today.

### **Entrance requirements:**

ENG4U, one of advanced functions (MHF4U), Calculus & vectors (MCV 4U), Physics (SPH4U)  
Calculus & physics strongly recommended.

### **Midwifery**

Midwives in Ontario are primary care practitioners, recognized as responsible and accountable professionals who work in partnership with women to give the necessary support, care and advice during pregnancy, labour and the postpartum period, to conduct births and to provide care for the newborn and the infant. This care includes preventative measures, the promotion of normal birth, the detection of complications in mother and child, the accessing of medical care of other appropriate assistance and the carrying out of emergency measures.

The midwife has an important task in health counselling and education, not only for the woman, but also within the family and the community. This work should involve antenatal education and preparation for parenthood and may extend to women's health, sexual or reproductive health and child care.

### **Entrance requirements:**

ENG4U, Biology SBI4U, Chemistry SCH4U, one social science course 4U or 4M  
min average 75%-80%

## **Nursing**

The BScN program promotes the development of nursing as a caring, client-centred, scientifically based profession. With an emphasis on problem-based, small group, self-directed learning, the program provides a general baccalaureate education in nursing for the preparation of professional nurses who will practice in a variety of health-care settings.

**Entrance Requirements :** ENG4U, one of MHF4U, Calculus & Vectors MCV4U, Mathematics of Data & Management (MDM 4U), Biology SBI4U, SCH 4U Chemistry

Admission range: 85-88%

## **Life Sciences**

At McMaster, the Honours Life Science degree is an interdisciplinary program that builds on courses from the departments of Biology, Biochemistry & Biomedical Sciences, and Psychology, Neuroscience & Behaviour.

**Entrance Requirements:** ENG 4U, one of advanced functions MHF4U, Calculus & Vectors MCV4U, Biology SBI4U, One of Advanced Functions (MHF4U), Calculus & Vectors (MCV4U), Chemistry (SCH4U) & Physics (SPH4U)

Min. Average : 83-86%



**Nipissing University**  
**North Bay, Ontario**  
**[www.nipissingu.ca](http://www.nipissingu.ca)**

## **Bachelor of Science in Biology & Chemistry**

**Entrance Requirements:** English; Biology; Chemistry; one of Calculus & Vectors or Advanced Functions

**Nursing:** English; Biology; Chemistry

(Mathematics is recommended)

**\*\*Graduates of the Canadore College practical nursing program are eligible to complete the BScN at Nipissing in 3 years\*\***

**Entrance requirements into practical nursing at Canadore:** Grade 12 Compulsory English (ENG 4C or ENG 4U), any Grade 12 Mathematics (C) or (U); Biology: Grade 11 or 12 (C) or (U), (SBI 3C, SBI 3U, SBI 4U); and one of the following two (2) sciences: Chemistry: Grade 11 or 12

(C) or (U), (SCH 3U, SCH 4U, SCH 4C); Physics: Grade 11 or 12 (C) or (U), (SPH 3U, SPH 4U, SPH 4C).

**Psychology:** English; Calculus & Vectors; one of Chemistry or Physics



**Ryerson University**  
**Toronto, Ontario**  
**[www.ryerson.ca](http://www.ryerson.ca)**

For more information on courses:

<http://www.ryerson.ca/undergraduate/admission/programs/index.html>

### **Bachelor of Science in Biology, Chemistry**

**Entrance Requirements:** English, Advanced Functions, Two of Biology, Chemistry, or Physics  
65-70% Average

### **Midwifery**

**Entrance Requirements:** English, Biology or Chemistry, 1 Grade 12 U of M course in Canadian World Studies, or the social sciences of humanities – min grade of 70%

### **Nursing Program-Collaborative program with Centennial College**

**Admission information:** O.S.S.D. with six Grade 12 U/M courses including Grade 12 U English, Biology (SBI4U), Chemistry (SCH4U), and Grade 11 U or M or Grade 12 U Mathematics (one of Functions and Applications (MCF3M), Functions and Relations (MCR3U), Advanced Functions (MHF4U), Calculus and Vectors (MCV4U), Mathematics of Data Management (MDM4U).

### **Occupational & Public Health (4 year)**

**Entrance Requirements:** English, 1 of Chemistry or Bio, Recommended Physics & Math, min average 65-70%

**Psychology (4 year):** Admission Requirements 6 U or M courses Min. Grade 70%

# PRINCE EDWARD ISLAND



**University of Prince Edward Island**  
**Charlottetown, PEI**  
**<http://www.upei.ca/home/>**

**Bachelor of Science: Biology, Chemistry, Physics, and Psychology (3 or 4 years)**

**Entrance Requirements:**

English, Mathematics, two Sciences, and one other academic course. If Grade 12 Chemistry is not selected to meet the Science requirement, Grade 11 Chemistry is required.

**Bachelor of Science in Nursing (4 years)**

**Entrance Requirements:**

Applicants must have successfully completed Grade 12 in a university preparatory program with an overall average of 70% in the following subjects: English, Mathematics, Chemistry, Biology and one other academic subject. Applicants must also have a 65% minimum in each of: English, Mathematics, Chemistry and Biology.

# Quebec



**Concordia University**  
**Montreal QC**  
**<http://www.concordia.ca/>**

**Bachelor of Science in Biology, Chemistry, Physics, Behavioural Neuroscience, Clinical Exercise Physiology, Biochemistry, Psychology**

**Entrance Requirements:**

Biology 301 or 101-NYA;

Chemistry 101 or 202-NYA **and** 201 or 202-NYB;

Mathematics 103 or 201-NYA **and** 203 or 201-NYB;

Physics 101 or 203-NYA **and** 201 or 203-NYB **and** 301 or 203-NYC

**Clinical Exercise Physiology**

The Clinical Exercise Physiology (CEP) program addresses some of the health and physical activity needs of special populations. If you have an appreciation for persons with a disability or chronic disease condition, their lifestyle and their exercise possibilities, you will find this program of interest.

**Career Opportunities:** Athletic therapist, clinical exercise physiologist, personal trainer

**McGill University**  
**Montreal, QC**  
**<http://www.mcgill.ca/>**

**Biology, Chemistry, Physics, Psychology**

**Entrance Requirements:** 27.7 R Score, overall 27.7

**Neuroscience:**

**Entrance requirements:** R score 30.0, overall 30.0

**Nursing**

**Entrance Requirements:** R score in Math & Science 26.0, overall 26.0

For more information see: <http://www.mcgill.ca/applying/standards/cegep/>

# Saskatchewan



**First Nations University**  
**Regina, Saskatoon, Prince Albert, SK**  
**Website: <http://www.firstnationsuniversity.ca/>**

NEPS is a collaborative venture of the First Nations University of Canada, the [University of Saskatchewan's College of Nursing](#) and the [Saskatchewan Institute of Applied Science and Technology \(SIASST\)](#). The complete program is offered in Prince Albert, Saskatoon and Regina.

- In Prince Albert, the nursing courses for all four years are held at the Northern Campus of the First Nations University of Canada. Year one and two year of the program are administered by the First Nations University of Canada and year three and four by the University of Saskatchewan. Non-nursing courses are offered by the First Nations University of Canada and the University of Saskatchewan.
- In Saskatoon, students take courses at Kelsey Campus for the first two years of the program and the University of Saskatchewan for the second two years.
- In Regina, all nursing courses are held at Wascana Campus. Non-nursing courses are accessed at the University of Regina where you will be classified as a visiting University of Saskatchewan student.

Your clinical practice will occur in various locations throughout the province.

**Entrance Requirements:**  
Minimum average of 70%  
English A30 & B30  
30-level Math  
Biology 30  
Chemistry 30



**University of Regina**

**Regina SK**

**<http://www.uregina.ca/>**

**Bachelor of Health Studies**

**Entrance Requirements:**

English Language Arts A30 and B30

One of math or science course chosen from Biology 30, Calculus 30, Chemistry 30, Computer Science 30, Geology 30, Math A30, B30 or C30, Physics 30

One language, social science, or fine arts

**Bachelor of Kinesiology**

**Entrance Requirements:**

English Language Arts A30 and B30, One of Math C30 or Pre-Calculus 30, One of Biology 30, Chemistry 30, Physics 30, One additional elective

**Bachelor of Science: Biology, Chemistry, Biochemistry, Physics**

**Entrance Requirements:** English Language Arts A30 and B30, Math B30 and C30, One of Biology 30, Chemistry 30 or Physics 30

**Bachelor of Science in Nursing**

**Entrance Requirements:**

English Language Arts A30, English Language Arts B30, One of Math A30, B30, C30, Calculus 30, Foundations of Math 30, or Pre-Calculus 30, Biology 30, Chemistry 20\*\*Students must have a Minimum grade of 70% on each of the required courses.



**University of Saskatchewan**

**Saskatoon, SK**

**Website: <http://www.usask.ca/>**

**Nursing**

**Entrance Requirements:**

English A30, English B30, Biology 30, Chemistry 30, and Mathematics 30, **\*\*Physics 30 is not a replacement for Chemistry 30\*\***

### **Kinesiology**

#### **Entrance Requirements:**

Mathematics B30, Biology 30, Chemistry 30 or Physics 30

### **Biomedical Sciences**

#### **Entrance Requirements:**

English, Math, Biology, Chemistry, Physics

Science programs: biology, biochemistry, biomedical sciences, microbiology & immunology

**\*\*See website for admission information\*\***

## Bibliography

Acadia University <<http://www2.acadiau.ca/index.php>>  
Algoma University <[www.algomau.ca](http://www.algomau.ca)>  
Athabasca University <<http://www.athabascau.ca/>>  
Augustana University <<http://www.augustana.ualberta.ca>>  
Brandon University <<http://www.brandonu.ca/home/>>  
Brock University <[www.brocku.ca](http://www.brocku.ca)>  
Carleton University <[www.carleton.ca](http://www.carleton.ca)>  
Concordia University College of Alberta <<http://www.concordia.ab.ca/>>  
Dalhousie University <<http://www.dal.ca/>>  
First Nations University of Canada <<http://www.firstnationsuniversity.ca/>>  
Lakehead University <[www.lakeheadu.ca](http://www.lakeheadu.ca)>  
Laurentian University <[www.laurentian.ca](http://www.laurentian.ca)>  
McGill University <<http://www.mcgill.ca/>>  
Mount Allison University <<http://www.mta.ca/>>  
Memorial University of Newfoundland <<http://www.mun.ca/>>  
McMaster University <[www.mcmaster.ca](http://www.mcmaster.ca)>  
Nipissing University <[www.nipissingu.ca](http://www.nipissingu.ca)>  
Ryerson University <[www.ryerson.ca](http://www.ryerson.ca)>  
Simon Fraser University <<http://www.sfu.ca/>>  
The King's University College <<http://www.kingsu.ca/>>  
University of Alberta <<http://www.ualberta.ca/>>  
University of British Columbia <<http://www.ubc.ca/>>  
University of Calgary <<http://www.ucalgary.ca/>>  
Vancouver Island University <<http://www.viu.ca/index.asp>>  
University of Lethbridge <<http://www.uleth.ca/>>  
University of Manitoba <<http://umanitoba.ca/>>  
University of Northern BC <<http://www.unbc.ca/>>  
University of Prince Edward Island <<http://www.upei.ca/home/>>  
University of Regina <<http://www.uregina.ca/>>

University of Saskatchewan <<http://www.usask.ca/>>

University of the Fraser Valley <<http://www.ufv.ca/home.htm>>

University of Victoria <<http://www.uvic.ca/>>

University of Winnipeg <<http://www.uwinnipeg.ca/>>