



CONCORDIA  
UNIVERSITY  
OF EDMONTON

Discover Your  
**Bachelor of  
Science**  
in Mathematics

# MATHEMATICS

## Program Overview

**3-year BSc:** This degree will provide you with an excellent general education as well as a solid background in the core areas of math. This pathway is a great choice if you're planning to earn another degree or diploma in a related field such as education, or if you just need a bachelor's degree to kickstart your career.

**4-year BSc:** Our 4-year program allows you to study the discipline in greater depth. You'll have the opportunity to take additional senior-level courses, participate in advanced lab classes, and also have the opportunity to pursue a major research project. This pathway is a great choice if you're looking to gain admission to a graduate program (e.g. Master's, PhD).

## Career Options

A Bachelor of Science degree allows you to explore a wide range of job opportunities upon graduation. You will be able to use your newfound research, analysis, and experimentation skills to forge your own career path. Some mathematics degree career paths include:

Actuary	Market Research Analyst
Accountant	Math Teacher
Cryptanalyst	Mathematician
Data Analyst	Oceanographer
Demographer	Software Developer
Financial Analyst/Consultant	Statistician
Government Officer	Teacher
Investment Analyst	

## Admission Requirements

Interested? You'll need to present a 60% average, with a passing grade in the following required high school courses:

- English Language Arts 30-1
- Mathematics 30-1 or 30-2
- Two subjects from Group C
- One subject from Group A, B, C or D

## Interesting Courses

*IT 270 - Applied Cryptography:* What is cryptography? This course provides an overview of cryptography algorithms and the main cryptosystems in use today. It emphasizes the application of cryptographic algorithms to designing secure protocols.

*IT 413 - Advanced Networking:* Following a brief review of the IP protocol, the course focuses on packet filtering, dynamic routing and a number of core application layer protocols. A wide variety of protocols are covered, including a sample of core application layer protocols such as DNS and DHCP.

# APPLY TODAY

[concordia.ab.ca](https://concordia.ab.ca)

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