

## CAPE BRETON UNIVERSITY | School of Science and Technology

### BACHELOR OF SCIENCE SPECIALIZATION IN MATHEMATICS (REGULAR STREAM)

#### WHAT IS THE STUDY OF MATHEMATICS?

Math relates to everything. It's an incredibly versatile subject, leveraged to solve the world's most complex issues in diverse fields like medicine, management, economics, government, computer science, physics, psychology, engineering and social sciences. Math is always evolving, pushing the boundaries of our knowledge in art and science, allowing us to make new discoveries.

Mathematicians find solutions that others can't. Math emerged from the earliest civilizations, using counting, geometry and architecture. Since then, mathematicians continue to make a lasting contribution to society.

#### WHY STUDY MATHEMATICS AT CAPE BRETON UNIVERSITY?

- Earn your BSc degree in Mathematics jointly with the Engineering Diploma
- The skills you pick up studying Math at CBU are useful in a range of fields like physical and health sciences to business, arts and law.
- Recent studies show the most satisfying and high paying jobs involve mathematics in some capacity
- Mathematics teaches you to think logically and use analytical reasoning to create the right conditions to resolve a problem

#### BSc Degree

This program has two entry points, so students can start in September or January.

To learn more about the BSc Specialization in Mathematics visit [chalocanada.ca/bscmathr](http://chalocanada.ca/bscmathr)

## MATHEMATICS COURSES

- MATH 4208 Nonlinear Optimization
- MATH 4205 Partial Differential Equations
- MATH 4101 Graph Theory
- MATH 3209 Probability & Mathematical Statistics
- MATH 3207 Introduction to Number Theory
- MATH 4103 Modern Algebra

## CO-OP INTERNSHIP OPTION

Students are eligible to take a paid internship while completing their BSc. The internship is usually 12-16 weeks in duration allowing students to work with a mentor in the field of study while earning a wage, three credits and a competitive edge when applying for future work.

## PROGRAM STRUCTURE

The School of Science and Technology offers four degree options:

- Bachelor of Science – 4 year with Honours
- Bachelor of Science – 4 year Double Major with Mathematics as First Major
- Bachelor of Science – 4 year Major
- Bachelor of Science – 3 year

Students are permitted to study economics and business courses to fulfill their other science course requirements for this degree.

Students will receive a 3 or 4-year Canadian university degree upon the successful completion of the program.

## ADMISSION REQUIREMENTS

Applicants to the program must have completed five Grade 12 advanced or academic courses including English, two sciences, and mathematics or pre-calculus, with an overall average of at least 65%. Applicants must successfully complete the IELTS exam with a score of 6.5 band average with no individual section score less than 6.0.

## CAREER DEVELOPMENT SERVICES

Career Development Services will help you prepare for a successful career. Its services include individual career counselling, resume and cover letter writing, mock interviews with feedback, graduate information, labour market information and more.

## CAREERS

Math skills are in demand in most careers. This provides math graduates with many options for career choice and development including bank manager, data analyst, benefits administrator, educator, statistician, and insurance underwriter among others. The math degree also provides a solid foundation for students wanting to earn professional designations like chartered accountant and actuary.

CBU's BSc in Mathematics will prepare you with the education necessary for you to achieve success in a broad range of industries.

### Attention

For those students who have graduated from an Indian educational institution with a degree in this subject area, credit recognition for your Indian courses is possible.

Please contact Chalo Canada for further details.



**Chalo Canada**  
Your Pathway to Canada

**For more information contact:**

**e:** [application@chalocanada.ca](mailto:application@chalocanada.ca)  
**w:** [chalocanada.ca](http://chalocanada.ca)

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