

INTERESTED IN A CAREER AS A SCIENCE AND MATH TEACHER? COME TO CAPE BRETON UNIVERSITY AND EARN BOTH A BACHELOR OF SCIENCE DEGREE AND BACHELOR OF EDUCATION DEGREE.

There are exciting career opportunities for teachers. At Cape Breton University you can become a qualified, professional Science teacher in as little as 4.5 years. By choosing the 3-year Bachelor of Science option followed by the 16-month Bachelor of Education degree, you will be ready to take your place in the teaching profession.

The Bachelor of Science degree offers specialization in the fields of Mathematics, Biology and Chemistry. You will also gain the foundation needed to apply for the Bachelor of Education degree required to teach high school Math and/or Science.

With some strategic course planning you will be able to graduate from the Bachelor of Science with 3 teachable science subjects rather than the standard 2 required for teacher certification in Nova Scotia. This increases your flexibility and professional career opportunities. Cape Breton University is recognized for the individual attention students receive in small classes led by dedicated instructors.

From your first day, you will be able to connect with faculty for advice and guidance, develop lasting relationships with classmates, and take advantage of resumé-building research and teaching opportunities.

YOU CAN CHOOSE ONE OF THE FOLLOWING OPTIONS:

	Option Mathematics focus	Option Biology focus	Option Chemistry focus
36 Credits	Mathematics	Biology	Chemistry
18 Credits	Biology	Chemistry	Mathematics
18 Credits	Chemistry	Mathematics	Biology

These options are part of the 3-year, 90 credit B.Sc. degree offered by CBU. In addition to the above science credits 18 credits from English and the Social Sciences are needed to round out your Education degree. A sample 5-year pathway can be found on the reverse side of this sheet, but for more information about electives and course requirements refer to the academic calendar or contact BEEd@cbu.ca.

You will receive guidance to select courses to be the kind of educator you want to be. There are also exciting opportunities to practice your teaching skills during your Bachelor of Science degree.

You can choose to participate in CBU's active science outreach programming including: Science Rendezvous, Mall of Science, Island WISE (a science diversity project), Let's Talk Science and ASK CBU.

Are you interested in cutting edge research in Science and Education? Faculty in both Science and Education have research assistant positions for which you can apply.

The Science Department at Cape Breton University offers hands-on learning, outdoor field courses and access to state of the art equipment.

When the 3-year Bachelor of Science is completed you formally move into the 16-month Bachelor of Education program. The B.Ed. begins in May of your Science graduation year and on successful completion you will be a professionally certified high school Science teacher the following September. Completing a Bachelor of Education at CBU makes you eligible to obtain a teaching licence in any province in Canada. To maximize your career possibilities, you will be invited to attend an international career fair for teachers to meet potential employers from across the province, Canada and the world.

The Bachelor of Education degree at CBU is the only program in the province of Nova Scotia with a focus on Education for Sustainability as part of the core program. In addition, students can choose an Aboriginal/Indigenous Education concentration option that is highly regarded.

There is a growing demand for Mathematics and Science teachers across the country. Internationally, the demand for professionally certified teachers is very high. Also, a Bachelor of Education degree opens opportunities in adult education settings, in colleges, and industry.

By choosing Cape Breton University you get the best of both worlds because with two degrees you double your options!

SAMPLE PATHWAY FOR A CHEMISTRY AND MATHEMATICS SPECIALIZATION

There are many teaching options available to you. You may choose to complete both teachable areas in the sciences, or you may choose something outside of science, like English, History or French. There is also enough flexibility to allow you to complete three teachables instead of the standard two. It's up to you! The following is just a sample guide, so you can imagine what your time at CBU might look like:

Pre-education Bachelor of Science Degree

YEAR 1

TERM 1: SEPTEMBER

- Chem 1104: General Chemistry I
- Math 1105: Differential & Integral Calculus I
- English 1000 or 2000 level course
- Free Elective
- Free Elective

TERM 2: JANUARY

- Chem 1105: General Chemistry II
- Math 1206: Differential & Integral Calculus II
- English 1000 or 2000 level course
- Free Elective
- Free Elective

YEAR 2

TERM 3

- Chem 2301: Introductory Organic Chemistry I
- Chem 2403: Introductory Analytical Chemistry
- Math 1109: Intro to Statistics I
- Phil 2221: Science & Society
- Free Elective

TERM 4

- Chem 2303: Introductory Organic Chemistry II
- Chem 2501: Introductory Inorganic Chemistry
- Math 1204: Intro to Matrix Algebra
- Phil 2223: Technology & Society
- Free Elective

YEAR 3

TERM 5

- Chem 2201: Chemical Thermodynamics
- Chemistry Elective
- Chemistry Elective (must be 3rd or 4th year level)
- Math 1116: Intro to Computer programming with C++
- Free Elective

TERM 6

- Chem 2203: Chemical Kinetics and Equilibrium
- Chemistry Elective
- Chemistry Elective (must be 3rd or 4th year level)
- Math 2101: Discrete Mathematics
- Free Elective

After successful completion of Term 5 you will notify the Education department of your continued intention to obtain a Bachelor of Education and will be invited for an interview to plan your next steps.

The following is the continuation of the pathway:

Secondary Science Bachelor of Education

TERM 7: MAY

- EDUC 4103 The Inclusive Classroom
- EDUC 4128 Principles and Practices of Secondary Education
- EDUC 4141 Teaching of Science at the Secondary Level
- EDUC 4154 Teaching of Mathematics at the Secondary Level
- Elective
- Field Experience (you choose- you could teach science summer camp for a week)

TERM 8: SEPTEMBER

- EDUC4107 Assessment of and for Learning
- EDUC4217 Adolescent Learner
- EDUC 4143 Teaching of Science at the Secondary Level II
- EDUC 4155 Teaching of Math at the Secondary Level II
- Elective
- The Professionalism Series

TERM 9: WINTER

- The Teaching Practicum: A full term in a school internship with a practicing teacher

TERM 10: MAY

- EDUC4109 Perspectives on Schooling
- EDUC4121 Literacy in Content Areas
- EDUC4114 Teaching & Learning for a Sustainable Future
- EDUC4213 Teaching Mathematics in Middle School
- Elective