

## CAPE BRETON UNIVERSITY | School of Science and Technology

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

#### WHAT IS THE STUDY OF CHEMISTRY?

Chemistry helps understand today's world from a unique and focused perspective. From creating life-saving antidotes to the mastery of brewing beer, chemistry is found in the makeup of so many things. This program looks at the scientific method and the scientific basis of the world around us. With great relevance to other fields of study such as engineering and nanotechnology, medicine and dentistry, food sciences and environmental sciences, the CBU chemistry program provides a gateway into many interesting and opportunity-filled careers.

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

- Students have the opportunity to complete co-op placements with Nova Scotia and Canadian companies as part of the Certificate in Industrial Chemistry, which is earned within the 4-year BSc Chemistry at CBU.
- Our CBU chemistry graduates are continuing their careers and have been very successful with graduate scholarships, in part due to their hands-on research experience.
- Students have great opportunities in all traditional branches of chemistry for hands-on research with state-of-the-art equipment, including a 400 MHz NMR spectrometer, FT-IR, FT-Raman, UV/Vis spectrometers, UPLC-MSMS/PAD, HPLC, GC-FID, GC-MS, atomic absorption spectrometer and a 28 core Linux cluster.
- CBU has a Chemistry Outreach Program, working with students from grades primary to 12 to share the wonderful world of science with audiences of all ages. This program creates opportunities for CBU chemistry students to share their knowledge and also learn from other students.

#### BSc Degree

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

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

## CHEMISTRY COURSES

- CHEM 4501 Organometallic Chemistry
- CHEM 4404 Instrumentation Design/Troubleshooting
- CHEM 4403 Advanced Analytical Chemistry
- CHEM 4301 Advanced Organic Chemistry
- CHEM 4203 Nanochemistry
- CHEM 4201 Advanced Physical Chemistry
- CHEM 3401 Analytical Spectroscopy

## 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 CBU Chemistry program is nationally accredited by the Canadian Society of Chemistry. We offer Canadian Society of Chemistry (CSC) accredited BSc Majors, Honours, Double Major and Double Major Honours degree programs.

Students have the option of taking a 3 or 4-year BSc degree in Chemistry. Students who begin in the 3-year degree have the option to upgrade to the 4-year 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 (one must be chemistry), 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

Careers in chemistry cover a wide area of industry including forensic science, refining, pulp and paper, brewing, petroleum, and pharmaceuticals among others. Graduates are well-equipped to serve in both private and public sector positions. Public sector jobs can include environment protection and public health officer. Private sector employment could be as a forensic scientist, material scientist, quality control manager, toxicologist, and hazardous waste manager.

CBU's BSc with an Honours or Major in Chemistry will prepare you with the education necessary for you to achieve success in this important sector.

### 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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