

## CHEMISTRY IS CENTRAL; WITHOUT BONDING WE WOULD FALL APART.

*-Anonymous*



### **ABOUT CHEMISTRY**

The chemistry program produces graduates who proceed to postgraduate degrees in chemistry, work in industry or government research labs, and other degree programs such as engineering, law, education, medicine and other health-related fields. Many of our chemistry majors gain valuable career-related experience while completing their degree. This includes the opportunity to work in the research laboratories of the faculty members.

Students can also gain teaching related experience by working as laboratory demonstrators in the Chemistry undergraduate laboratories.

### **DEGREES OFFERED**

- B.Sc. major or honours in chemistry (accredited)
- B.Sc. major or honours in computational chemistry (accredited)
- B.Sc. major or honours in chemistry (biological) (accredited)

The following joint honours programs are also offered: chemistry/biochemistry (accredited), applied mathematics/chemistry (accredited), physics/chemistry (accredited), Earth sciences/chemistry (accredited).

A minor in chemistry is available.

## **PROGRAMS**

The major program offers a broad background in all branches of chemistry including analytical, physical (both experimental and theoretical), organic and inorganic.

Honours students do a research project over the fall and winter semesters of their final year under the supervision of a faculty member, which counts as two required courses.

The B.Sc. programs in computational chemistry are unique in Canada. In these programs, students study chemistry as well as topics in advanced mathematics, computer science and physics that are crucial for computational chemistry.

## **CHEMISTRY AT MEMORIAL**

The Department of Chemistry has state-of-the-art spectroscopic and other analytical instrumentation. It also has access to the high performance computing facilities of ACEnet and other Digital Research Alliance of Canada facilities, as well as on-campus expertise for training and troubleshooting. The department also has extensive computing facilities for chemistry majors and honours students.

## **CAREERS**

- Art conservationist
- Brew master
- Chemical laboratory technician
- School/university educator
- Clinical chemist
- Environmental chemist
- Forensic chemist
- Geochemist
- Industrial research chemist
- Medical doctor
- Patent lawyer
- Petroleum chemist
- Pharmaceutical chemist

## **FOR MORE INFORMATION**

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