

Chemistry

How can chemistry be applied to pollution control?

What are nanomaterials and why are they important?

Why do half the enzymes in our body use metal ions?

How can metal oxide materials split water into renewable hydrogen and use it to make solar fuels?

What are supercritical fluids and how can they be used in industry?

Chemistry—the central science—is the study of elements and compounds, their properties, and the ways they react to form new substances.

You'll benefit from exposure to the cutting-edge research interests of faculty members in materials science, electrochemistry, chemical biology, medicinal chemistry, computational chemistry and supercritical fluids.

Pursue your studies through the Comprehensive Chemistry program, or choose to specialize in Chemical Biology or Pharmaceutical Chemistry.

Augment your learning experience through our five-year co-op option.

From the theoretical to the practical—you'll learn all major fields of chemistry including physical, analytical, organic, inorganic and biological.



What will I study?

- Analytical Chemistry
- Biochemistry
- Inorganic Chemistry: Transition Metals and Main Group Elements
- Instrumental Analytical Chemistry
- Molecular Structure Determination from Spectroscopic Data
- Physical Chemistry: Surfaces and Colloids
- Quantum Chemistry and Spectroscopy

What can I do with my degree?

Pursue career and advanced education opportunities in a variety of areas including:

- Analytical Chemistry
- Biotechnology
- Electrochemistry
- Materials Science
- Nanochemistry
- Pharmaceutical Chemistry
- Secondary School Teacher (through Concurrent Education)

An undergraduate Chemistry degree allows you to pursue graduate studies. This includes our Master of Science programs in Materials Science or Applied Bioscience.

Want more information?

Faculty of Science
2000 Simcoe Street North
Oshawa, Ontario L1G 0C5
Canada

905.721.3190

connect@ontariotechu.ca

ontariotechu.ca/programs



If you require an alternative format of this publication, contact marketing@ontariotechu.ca.

© University of Ontario Institute of Technology 2021. ONTARIO TECH UNIVERSITY and Design, and Tech with a Conscience are trademarks of the University of Ontario Institute of Technology. D5462