Pharmaceutical Chemistry

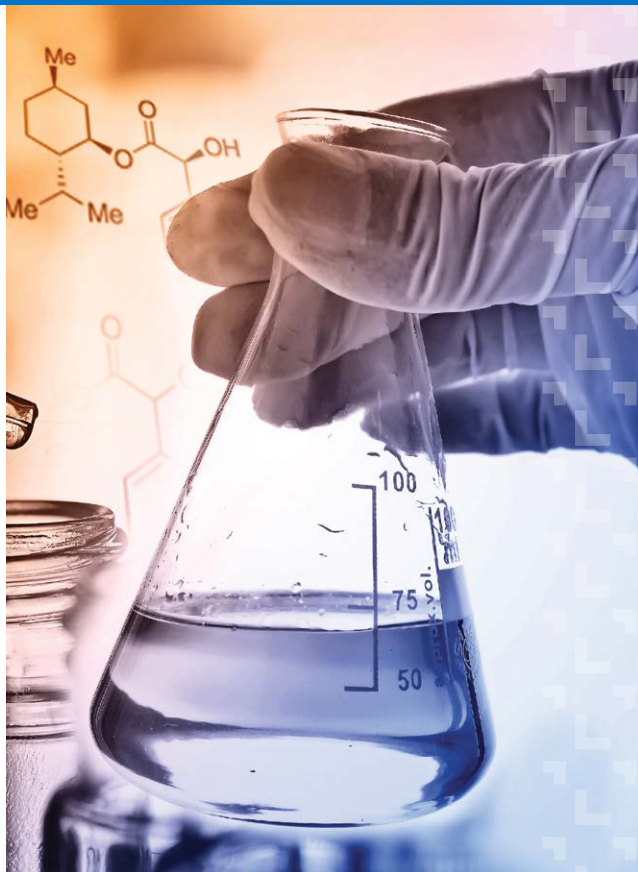
How can chemistry help create medicine to heal the human body?
What is the role of medicinal chemistry?
How can more effective drugs be developed?
What are the key aspects of drug discovery?
How does medicinal chemistry differ from process chemistry?

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

Pharmaceutical Chemistry combines the study of drug discovery and development, pharmacology, analytical techniques and drug chemistry. The chemical design process and evaluation of potential future medications will be a prime focus of your studies.

You'll gain knowledge and skills from course material, hands-on lab experiences, and faculty research geared to the pharmaceutical industry.

Acquire an integrated knowledge base in chemical science, fundamental to the pharmaceutical industry.



What will I study?

- Advanced Topics in Pharmaceutical Biotechnology
- Biochemistry
- Bio-Organic Chemistry and Chemical Biology
- Introductory Medicinal Chemistry
- Organic Chemistry
- Pharmaceutical Discovery
- Principles of Pharmacology and Toxicology

What can I do with my degree?

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

- Biotechnology
- Drug discovery
- Government or private research laboratories
- Pharmaceutical monitoring and regulation
- Pharmaceutics
- Pharmadynamics

An undergraduate Chemistry degree—with a specialization in Pharmaceutical Chemistry—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

OntarioTech UNIVERSITY

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