BHSc Learning Tracks – Archived April 2022

# Pharmacology, Toxicology, and Therapeutics

Courses in this learning track cover both fundamental and advanced pharmacological and toxicological principles. Specifically, these courses examine the mechanism of action and resultant physiological effects of drugs and chemicals on the body, as well as how the body handles these drugs and chemicals. Adverse effects of drugs and toxicants, as well as best methods of assessing these detrimental effects are also taught.

**This track requires students to take a total of 7 courses; 5 Required and 2 Additional**

## Required Courses

**All** of these courses must be taken for this track to be completed

#### [PHAR 100 - Introductory Pharmacology](https://bhsc.queensu.ca/program-and-courses/learning-tracks/pharmacology-toxicology-and-therapeutics#accordion-ivgl2-1)

#### [PHAR 370 - Fundamentals of Pharmacology and Therapeutics](https://bhsc.queensu.ca/program-and-courses/learning-tracks/pharmacology-toxicology-and-therapeutics#accordion-ivgl2-2)

#### [PHAR 380 - Drug and Environmental Toxicology](https://bhsc.queensu.ca/program-and-courses/learning-tracks/pharmacology-toxicology-and-therapeutics#accordion-ivgl2-3)

#### [REPD 473 - Developmental Origins of Health and Disease](https://bhsc.queensu.ca/program-and-courses/learning-tracks/pharmacology-toxicology-and-therapeutics#accordion-ivgl2-4)

#### [PHAR 480 - Drug Discovery and Development](https://bhsc.queensu.ca/program-and-courses/learning-tracks/pharmacology-toxicology-and-therapeutics#accordion-ivgl2-5)

## Additional Courses

Students must take **at least TWO (2)** of the following courses to complete this track

#### [BMED 390 - Integrative Laboratory Studies](https://bhsc.queensu.ca/program-and-courses/learning-tracks/pharmacology-toxicology-and-therapeutics#accordion-hvb9f-1)

#### [BMED 483 - Advanced Topics in Infectious Disease](https://bhsc.queensu.ca/program-and-courses/learning-tracks/pharmacology-toxicology-and-therapeutics#accordion-hvb9f-2)

#### [CRSS 454 - Cardiovascular Sciences](https://bhsc.queensu.ca/program-and-courses/learning-tracks/pharmacology-toxicology-and-therapeutics#accordion-hvb9f-3)

#### [NSCI 483 - Neurobiology in Learning and Memory](https://bhsc.queensu.ca/program-and-courses/learning-tracks/pharmacology-toxicology-and-therapeutics#accordion-hvb9f-4)

#### [MICR 290 - Antibiotic Resistance Lab](https://bhsc.queensu.ca/program-and-courses/learning-tracks/pharmacology-toxicology-and-therapeutics#accordion-hvb9f-5)