Pharmacology and Toxicology, Minor

The human body comes into contact with countless chemicals and drugs during the course of a lifetime. You can explore how these foreign materials react with our bodies.

Description

A minor in pharmacology and toxicology provides students with biology and chemistry courses to help prepare them to explore how chemicals (drugs and environmental toxicants) affect living organisms.

Students learn to identify chemical characteristics leading to beneficial and adverse effects, describe how chemicals are evaluated for regulatory purposes, and summarize holistically how drugs and toxicants elicit their effects.

At a Glance

- **College/School:** [New College of Interdisciplinary Arts and Sciences](#)
- **Location:** West campus

Program Requirements

**Minor Map (Archives)**

**2021 - 2022 Minor Map**

The minor in pharmacology and toxicology consists of 20 credit hours. A minimum of 12 credit hours must be upper division. A minimum of six upper-division credit hours must be taken through the School of Mathematical and Natural Sciences. All courses used to satisfy requirements for the minor must be passed with a "C" (2.00) or better.

**Required -- 14 credit hours**
BCH 371: Modern Concepts in Biochemistry (3)
BIO 182: General Biology II (SG) (4)
CHM 116: General Chemistry II (SQ) (4)
PTX 301: Basics of Pharmacology and Toxicology (3)

Upper-Division Electives (choose two courses) -- 6 credit hours

PTX 401 / FOR 401: Forensic Toxicology (3)
PTX 432 / LSC 432: Fundamentals of Pharmacology (3)
PTX 475 / FOR 475 / LSC 475: Principles of Toxicology (3)
PTX 499: Individualized Instruction (3)

Depending on a student’s undergraduate program of study, prerequisite courses may be needed in order to complete the requirements of this minor.

Enrollment Requirements

GPA Requirement: 2.00

Incompatible Majors: BS in pharmacology and toxicology, BS in biology (pharmacology/toxicology)

Other Enrollment Requirements: The following prerequisite courses do not count toward the minor, but may be needed in order to complete the requirements of the minor:

BIO 181 General Biology I
BIO 353 Cell Biology
CHM 113 General Chemistry I
CHM 233 General Organic Chemistry I AND CHM 237 General Organic Chemistry Laboratory I
CHM 234 General Organic Chemistry II AND CHM 238 General Organic Chemistry Laboratory II
LSC 347 Fundamentals of Genetics

Current ASU undergraduate students may pursue a minor and have it recognized on their ASU transcript at graduation. Students interested in pursuing a minor should consult their academic advisor to declare the minor and to ensure that an appropriate set of courses is taken. Minor requirements appear on the degree audit once the minor is added. Certain major and minor combinations may be deemed inappropriate by the college or department of either the major program or the minor. Courses taken for the minor may not count toward both the major and minor. Students should contact their academic advisor for more information.

Career Opportunities
Relevant career paths include the pharmaceutical industry, regulatory fields such as environmental risk assessment, and graduate programs in public health, pharmacology, toxicology or environmental health sciences.

Contact Information

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