

Bachelor of Science in Medical Pharmacology & Toxicology

Degree Requirement Term: Fall 2025

This is a **SAMPLE PLAN**. Your plan may look different, depending upon your placement scores, transfer credit, and career goals. Work with your advisor to develop an individualized course plan.

SEMESTER 1		SEMESTER 2	
MATH 112: <i>College Algebra</i>	3	CHEM 152: <i>General Chemistry II</i>	4
CHEM 151: <i>General Chemistry I</i>	4	ENGL 102: <i>English Composition II</i>	3
ENGL 101: <i>English Composition I</i>	3	MCB 181R +181L: <i>Introductory Biology I + lab</i>	4
Second Language – 1 st -semester level	4	Second Language – 2 nd -semester level	4
UNIV 101: <i>Intro to General Education</i>	1		15
PCOL 196D: <i>Intro to Pharmaceutical Sciences</i> ~	1		
	16		
SEMESTER 3		SEMESTER 4	
CHEM 241A+243A: <i>Organic Chemistry I + lab</i>	4	CHEM 241B+243B: <i>Organic Chemistry II + lab</i>	4
PSIO 201: <i>Human Anatomy & Physiology I</i>	4	PSIO 202: <i>Human Anatomy & Physiology II</i>	4
Major Elective	3	Pharmacology Major Emphasis Course	3
General Education*	3	General Education *	3
	14	General Education *	3
			17
SEMESTER 5		SEMESTER 6	
ECOL 182R + 182L: <i>Introductory Biology II</i>	4	BIOC 384: <i>Foundations in Biochemistry</i>	3
PCOL 406: <i>Comprehensive Human Pharmacology</i>	5	PCOL 350: <i>Human ADME & Toxicology</i>	3
Pharmacology Major Emphasis Course	3	Toxicology Major Emphasis Course	3
General Education*	3	General Education*	3
	15	General Education*	3
			15
SEMESTER 7		SEMESTER 8	
PCOL 305: <i>Scientific Writing for Health Sciences</i>	3	Toxicology Major Emphasis Course	3
Pharmacology Major Emphasis Course	3	Major Elective	3
Major Elective	3	Major Elective	3
Honors Thesis OR Upper-Division Elective Credit	3	Honors Thesis OR Elective Credit	3
UNIV 301: <i>General Education Portfolio</i>	1	Elective Credit**	3
	13		15

Total Units Required: 120 (42 upper-division)

ADDITIONAL COURSES MAY BE REQUIRED FOR ADMISSION TO PROFESSIONAL PROGRAMS OR TO PREPARE FOR CERTAIN CAREER PATHS, including Pharmacy, Medicine, and other health professions.

- **PRE-MED:** Many medical schools require statistics and physics I and II. Other schools may require additional courses; check with your programs of interest, and refer to these [Pre-Med Course Recommendations](#).
- **PRE-PHARMACY:** Most PharmD programs require statistics, calculus, microbiology, and physics. Other schools may require additional courses; check your programs of interest for specific requirements.
- **OTHER HEALTH PROFESSIONS:** Review these [Pre-Health Course Recommendations](#) for dental, PT, PA, and other health profession programs.
- **RESEARCH CAREERS:** Pursue undergraduate research experience to prepare for research careers. You can earn course credit for doing research.

~ PCOL 196D is recommended for all incoming first-year students, but it is not a required course.

* General education requirements include the following courses:

- UNIV 101 (Intro to General Education) and UNIV 301 (General Education Portfolio)
- FOUR *Exploring Perspectives* Gen Ed courses (Social Scientist, Humanist, Artist, and Scientist) The Scientist requirement is covered by CHEM 151.
- THREE *Building Connections* Gen Ed courses