

Bachelor of Science in Pharmaceutical Sciences

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

MATH 113: <i>Elements of Calculus</i>	3
CHEM 151: <i>General Chemistry I</i>	4
ENGL 101: <i>English Composition I</i>	3
Second Language – 1 st -semester level	4
UNIV 101: <i>Intro to General Education</i>	1
PCOL 196D: <i>Intro to Pharmaceutical Sciences</i> ~	1
	16

SEMESTER 2

CHEM 152: <i>General Chemistry II</i>	4
ENGL 102: <i>English Composition II</i>	3
MCB 181R +181L: <i>Introductory Biology I + lab</i>	4
Second Language – 2 nd -semester level	4
	15

SEMESTER 3

CHEM 241A+243A: <i>Organic Chemistry I + lab</i>	4
PSIO 201: <i>Human Anatomy & Physiology I</i>	4
PCOL 200: <i>Drugs and Humanity</i>	3
General Education*	3
	14

SEMESTER 4

CHEM 241B+243B: <i>Organic Chemistry II + lab</i>	4
PSIO 202: <i>Human Anatomy & Physiology II</i>	4
PCOL Major Elective	3
General Education *	3
General Education *	3
	17

SEMESTER 5

MIC 205A + 205L: <i>General Microbiology + lab</i>	4
BIOC 384: <i>Foundations in Biochemistry</i>	3
PCOL 406: <i>Comprehensive Human Pharmacology</i>	5
PCOL 310: <i>Drug Approval: The 3 Billion Dollar Bet</i>	2
	14

SEMESTER 6

PHYS 110: <i>Introductory Studio Physics I</i>	4
PCOL 350: <i>ADME: How the Body Changes Drugs</i>	3
PCOL 410: <i>Integrated Medicinal Chemistry</i>	4
General Education*	3
	14

SEMESTER 7

PCOL 305: <i>Scientific Writing for Health Sciences</i>	3
PCOL Sub-Core Course	3
PCOL Major Elective	3
General Education – Upper Division	3
Elective Credit or Statistics**	3
	15

SEMESTER 8

PCOL Sub-Core Course	3
PCOL Major Elective	3
General Education – Upper-Division *	3
UNIV 301: <i>General Education Portfolio</i>	1
Elective Credit**	5
	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-PHARMACY:** Most PharmD programs require statistics. Many also require general biology II, economics, and/or public speaking. Check your programs of interest for requirements.
- **PRE-MED:** Many medical schools require statistics, general biology II, and physics II. Other schools may require additional courses; check with your programs of interest, and refer to these [Pre-Med Course Recommendations](#).
- **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