

Bachelor of Science in Pharmaceutical Sciences

Degree Requirement Term: Fall 2026

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 113: <i>Elements of Calculus</i> | 3 | CHEM 152: <i>General Chemistry II</i> | 4 |
| CHEM 151: <i>General Chemistry I</i> | 4 | WRIT 102: <i>English Composition II</i> | 3 |
| WRIT 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 |
| PCOL 200: <i>Drugs and Humanity</i> | 3 | PCOL Major Elective | 3 |
| General Education* | 3 | General Education * | 3 |
| | 14 | General Education * | 3 |
| | | | 17 |
| SEMESTER 5 | | SEMESTER 6 | |
| MIC 205A + 205L: <i>General Microbiology + lab</i> | 4 | PHYS 110: <i>Introductory Studio Physics I</i> | 4 |
| BIOC 384: <i>Foundations in Biochemistry</i> | 3 | PCOL 350: <i>ADME: How the Body Changes Drugs</i> | 3 |
| PCOL 406: <i>Comprehensive Human Pharmacology</i> | 5 | PCOL 410: <i>Integrated Medicinal Chemistry</i> | 4 |
| PCOL 310: <i>Drug Approval: The 3 Billion Dollar Bet</i> | 2 | General Education* | 3 |
| | 14 | | 14 |
| SEMESTER 7 | | SEMESTER 8 | |
| PCOL 305: <i>Scientific Writing for Health Sciences</i> | 3 | PCOL Sub-Core Course | 3 |
| PCOL Sub-Core Course | 3 | PCOL Major Elective | 3 |
| PCOL Major Elective | 3 | General Education – Upper-Division * | 3 |
| General Education – Upper Division | 3 | UNIV 301: <i>General Education Portfolio</i> | 1 |
| Elective Credit or Statistics** | 3 | Elective Credit** | 5 |
| | 15 | | 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.
- TWO *Building Connections* Gen Ed courses
- ONE Civic Institutions Gen Ed course