

# Bachelor of Science in Pharmaceutical Sciences

Degree Requirement Term: Fall 2024

**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	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 <sup>st</sup> -semester level	4	Second Language – 2 <sup>nd</sup> -semester level	4
UNIV 101: <i>Intro to General Education</i>	1		<b>15</b>
PCOL 196D: <i>Intro to Pharmaceutical Sciences</i> ~	1		
	<b>16</b>		
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 &amp; Physiology I</i>	4	PSIO 202: <i>Human Anatomy &amp; Physiology II</i>	4
PCOL 200: <i>Drugs and Humanity</i>	3	PCOL Major Elective	3
General Education*	3	General Education *	3
	<b>14</b>	General Education *	3
			<b>17</b>
SEMESTER 5		SEMESTER 6	
MIC 205A + 205L: <i>General Microbiology + lab</i>	4	PHYS 102+181: <i>Introductory Physics I + lab</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
	<b>14</b>		<b>14</b>
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
	<b>15</b>		<b>15</b>

**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