

Bachelor of Science in Pharmaceutical Sciences

Degree Requirements: Fall 2023

NAME	ID# Date
GENERAL EDUCATION REQUIREMENTS	Physics, with lab
Introduction to General Education	□PHYS 102 & 1813 1
	Biochemistry
+	□BIOC 384, 385, or 462A 3
English Composition*	
□ENGL 101 07 107	PHARM SCI MAJOR REQUIREMENTS
OR OR	
□ENGL 109H	CORE REQUIREMENTS – Complete all 7 (23 units)
	PCOL 200: Drugs & Humanity
Second Language	PCOL 305: Scientific Writing for Health Sciences 3
2 nd semester proficiency	PCOL 310: Drug Approval: The 3 Billion Dollar Bet 2
<u>Mathematics</u>	□ PCOL 350: ADME: How the Body Changes Drugs 3
	PCOL 406: Comprehensive Human Pharmacology 5
	PCOL 410: Integrated Medicinal Chemistry 5
Exploring Perspectives (4 courses)	□PCOL 440: Rigor & Reproducibility 2
□Artist	SUB-CORE REQUIREMENTS – Choose 2 (6 units)
□Humanist 3	\square PCOL 355: Drug Delivery Systems
Social Scientist 3	□ PCOL 390: Biomarkers: Analysis of Drug Effect/Tox 3
Natural Scientist <i>fulfilled with CHEM 151</i>	□ PCOL 473: Pharmacogenomics
Building Connections (3 courses)	\Box PCOL 488: Drug Hunting for Beginners
□Course #1	
□ Course #2	MAJOR ELECTIVES – Choose 2 (6 units)
□ Course #3	PCOL 300: Pharmacology of Cosmetics
	PCOL 320: Toxicology 3
General Education Portfolio	\Box PCOL 405: Pharmaceutical Science Techniques 3
UNIV 301 1	PCOL 418: Medicinal Chem of Natural Products 3
□ Minimum 32 total General Education Units Required	□ PCOL 434: Pharmacology of Sex
	PCOL 445: OTC Drug Information
BSPS FOUNDATION SCIENCE COURSES	PCOL 465: Infectious Disease Pharmacology
	PCOL 467: Pharmacology of Anti-Cancer Drugs 3
Chemistry (General & Organic, with labs)	Extra "Sub-Core" courses may count as major electives
□CHEM 151 OR (161+163) OR (141+143) 4	3
□CHEM 152 OR (162+164) OR (142+144) 4	3
□CHEM (241A OR 242A) & 243A 3 1	UNIVERSITY REQUIREMENTS:
□CHEM (241B OR 242B) & 243B 3 1	2.00+ cumulative GPA 2.00+ major GPA 120 total units* 42 upper division units*
Introductory Biology, with lab	*All students need elective credit to reach unit requirements
□MCB 181R & 181L 3 1	MCWA complete 30+ total UA units
Microbiology, with lab Image: Image	ADDITIONAL REQUIREMENTS FOR MEDICAL AND PHARMACY SCHOOL Most schools require the following courses, but individual schools may have even more requirements. Check each school of interest for details.
□ PSIO 380 4 OR	Pre-Med students should add the following courses to their BSPS plan: PHYS 103&182 PSY 150A1 (as Soc Sci gen ed) Stats (MATH 263) Biology II (ECOL 182R+182L)
□PSIO 201 4 □PSIO 202 4 PSIO 201 + 202 option is required for PharmD admission	UA Pre-PharmD students must add the following courses to the BSPS plan: Statistics PSIO 201 + 202 in lieu of PSIO 380



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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	
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SEMESTER 3	
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SEMESTER 5	
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SEMESTER 7	
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	15

SEMESTER 2

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

SEMESTER 4	
CHEM 241B+243B: Organic Chemistry II + lab	4
PSIO 202: Human Anatomy & Physiology II	4
PCOL 440: Rigor & Reproducibility	2
General Education *	3
General Education *	3
	16

SEMESTER 6

PHYS 102+181: Introductory Physics I + lab	4
PCOL 350: ADME: How the Body Changes Drugs	3
PCOL 410: Integrated Medicinal Chemistry	5
General Education*	3
	15

SEMESTER 8

PCOL Sub-Core Course	3
PCOL Major Elective	3
General Education – Upper-Division *	3
UNIV 301: General Education Portfolio	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-PHARAMCY: 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