

Bachelor of Science in Pharmaceutical Sciences

Degree Requirements: Catalog Year 2020-2021

Sample Four-Year Plan: Version 1A

Recommended for students with math placement of MATH 113 or higher

SEMESTER 1

MATH 113: <i>Elements of Calculus*</i>	3
CHEM 151: <i>General Chemistry*</i>	4
ENGL 101: <i>English Composition I</i>	3
Second Language – 1 st -semester level	4
PCOL 196D: <i>Intro to Pharmaceutical Sciences~</i>	1
	15

SEMESTER 2

CHEM 152: <i>General Chemistry II*</i>	4
ENGL 102: <i>English Composition II*</i>	3
Second Language – 2 nd -semester level	4
Tier I General Education Course**	3
Tier I General Education Course**	3
	17

SEMESTER 3

CHEM 241A+243A: <i>Organic Chemistry I + lab*</i>	4
MCB 181R +181L: <i>Introductory Biology I + lab*</i>	4
PCOL 310: <i>Drug Approval – The 3 Billion Dollar Bet</i>	2
Tier I General Education Course**	3
	13

SEMESTER 4

CHEM 241B+243B: <i>Organic Chemistry II + lab*</i>	4
PSIO 380: <i>Fundamentals of Human Physiology*</i>	4
PCOL 440: <i>Rigor & Reproducibility</i>	2
Tier I General Education Course**	3
Tier II General Education Course**	3
	16

SEMESTER 5

MIC 205A + 205L: <i>General Microbiology + lab</i>	4
BIOC 384: <i>Foundations in Biochemistry</i>	3
PCOL 305: <i>Scientific Writing for Health Sciences</i>	3
PCOL 406: <i>Comprehensive Human Pharmacology</i>	5
	14

SEMESTER 6

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

SEMESTER 7

PCOL 355: <i>Drug Delivery Systems</i>	3
PCOL 390: <i>Biomarkers: Analysis of Drug Effect/Toxicity</i>	3
Tier II General Education Course**	3
Upper-Division Elective, Research, or Thesis	3
Upper-Division Elective	3
	15

SEMESTER 8

PHCL 460: <i>Designing Drugs: From Chemistry to Cure</i>	3
PCOL 473: <i>Pharmacogenomics</i>	3
Upper-Division Elective, Research, or Thesis	3
Elective	6
	15

Total Units Required: 120 (42 upper-division)

Notes:

- This is a sample plan. Your placement scores, transfer and exam credit, and other personal factors may impact your course sequencing. Other sample plans are available for pre-med and pre-PharmD students. (Additional courses are required for admission to those professional programs.) Official degree requirements can be found in the UA Academic Catalog.
- ~ PCOL 196D is recommended for all incoming first-year students, but it is not a required course.
- * Certain science, math, and English courses must be completed with a minimum C average in order to gain Advanced Standing in the Pharmaceutical Sciences major. Other requirements will apply. Advanced Standing is required in order to access PCOL and PHCL courses in the 6th through 8th semester.
- ** Standard general education requirements include the following:
 - Tier I: Two courses in Traditions & Cultures (160) and two courses in Individuals & Societies (150)
 - Tier II: Three units in Arts, one course in Humanities, and one course in Individuals & Societies
 - Diversity Emphasis: One of your Tier I or II courses must have a diversity emphasis
 - Honors students have the option of taking one Tier I and two Tier II courses in the Individuals & Societies and Traditions & Cultures/Humanities categories. The same total number of courses apply for honors and non-honors students.

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