

**Academic Roadmap
Pharmacy Programs
Preparing for the PCAT**

Freshman Year

FIRST SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Principles of Biology	BIO 111	
Fundamentals of Chemistry 1 + lab	CHE 111/113	HS Math competency
Math (to prepare for calc)	MAT 114	
General Education Course	PSY 101	
College Writing I	CWP 101	
Major course		

SECOND SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Introductory Biology Series	BIO 211 or 213	BIO 111 (C or better)
Fundamentals of Chemistry I w/ lab OR Fundamentals of Chemistry II w/ lab	CHE111/113 or CHE112/114	CHE 111/113
MAT (calc pre-requisite)	MAT 124	
General Education Course	EXE 100	
College Writing II	CWP 102	

Notes: Follow the Chemistry sequence through CHE 470 (taught only in fall)

You will need Statistics MAT 311. Applied Calculus I is commonly required MAT 126 (pre-requisites are MAT 114 and MAT 124) Check with your [programs](#)

Sophomore Year

THIRD SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Introductory Biology Series	BIO 211 or 213	BIO 111 (C or better)
Fundamentals of Chemistry II + lab or Organic Chemistry I+ Lab	CHE 112/114 or CHE 201/203	C or better in CHE 111/113 or C or better in CHE 112/114
Applied Calculus I	MAT 126	
Major course(s)		
General Education course(s)		

FOURTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Microbiology	BIO 316	BIO 211, 213 and CHE 111/113
Organic Chemistry I + Lab or Organic Chemistry II+ Lab	CHE 201/203 or CHE 202/204	C or better in CHE 112/114 or C or better in CHE 201/203
Applied Calculus II	MAT 127	MAT 126
Major course(s)		
General Education course(s)		

Notes:

Junior Year

FIFTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Organic Chemistry II + lab or Biochemistry	CHE202/204 or CHE 470	C or better in CHE 201/203 or C or better in CHE 202/204
College Physics I or University Physics I	PHY 107 or PHY 111	Algebra based or Calculus based
Anatomy & Physiology I	BIO 311	Fall only
Major course		

SIXTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Genetics	BIO 303	
College Physics II or University Physics II	PHY 108 or PHY 112	PHY 107 or PHY 111
Anatomy & Physiology II	BIO 312	Spring only
General education		
Developmental Psychology	PSY 355	PSY 101
Major course(s)		

Notes:

Senior Year

SEVENTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Biochemistry (if not taken previously)	CHE 470	CHE 202/204

EIGHTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)

Notes:

[Chart](https://www.pharmcas.org/sites/default/files/2024-07/2024-2025-AACP-Course-Prerequisite-Summary.pdf) of Pharmacy pre-requisites by school: <https://www.pharmcas.org/sites/default/files/2024-07/2024-2025-AACP-Course-Prerequisite-Summary.pdf>

Explore Pharmacy programs here: <https://www.pharmcas.org/school-directory/pharmd-directory>