

Biology, Pre-Pharmacy, AS

School of Math, Science and Engineering

Program Description

The Biology, Pre-Pharmacy, AS degree is designed to prepare students for the rigorous Doctor of Pharmacy programs at a number of prestigious Pharmacy schools in Pennsylvania and across the United States. Because of the variations in Pre-Pharmacy program requirements, it is highly recommended that students choose their preferred Pharmacy school and use its specific requirements to tailor this degree. Working with our transfer counselor to choose the appropriate electives for your chosen destination Pharmacy program is also highly recommended. This program focuses on the study of principles of biology and chemistry, problem-solving, critical thinking, laboratory skills, and technical communication.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of fundamental biology concepts and principles.
- Demonstrate an understanding of fundamental chemistry concepts and principles.
- Apply problem-solving, critical thinking, and analysis skills to biology and chemistry problems.
- Work effectively with units and significant digits.
- Carry out biology and chemistry experiments as well as accurately record and analyze results of such experiments in writing.

Sugg. Term	Seq #	Course ID	Course Title	Cr.	Prereq/Coreq(Co)	Options Available
1st Fall	1	CHM 150	General Chemistry I Lecture	3	HS Chemistry (C or better) or CHM 107, MTH 052 or Placement	
	2	CHM 151	General Chemistry I Lab	1	Co: CHM 150	
	3	BIO 155	General Biology I	4		
	4	ENG 161	College Writing	3	ENG 085 with Permission of Instructor, ENG 095 or Placement	
	5	Restricted Elective	HUM/SOC Elective 1	3-4	Varies	ASL, SPA, FRN, HIS 155 or HIS 156, or Page 21 Column II or III
	6	Restricted Elective	HUM/SOC Elective 2	3	Varies	REL 171 or REL 181 or Page 21 Column II or III
1st Spring	7	CHM 160	General Chemistry II Lecture	3	CHM 150/151	
	8	CHM 161	General Chemistry II Lab	1	Co: CHM 160	
	9	Restricted Elective	BIO Elective 1	4	Varies	BIO 156 or 171
	10	Restricted Elective	MTH Elective	3-4	Varies	MTH 157, MTH 167, MTH 160, MTH 170, or MTH 172
	11	Elective	Restricted Elective	3	Varies	ECN 158, ECN 255, ECN 256, ENG 163, ENG 164, PHL 101, 103, PSY 160, SOC 155 or SPC 155
2nd Fall	12	CHM 260	Organic Chemistry I Lecture	3	CHM 160/161	
	13	CHM 261	Organic Chemistry I Lab	1	Co: CHM 260	
	14	Restricted Elective	BIO Elective 2	4	Varies	BIO 156, BIO 171, BIO 172, or BIO 265
	15	Restricted Elective	BIO Elective 3	4	Varies	BIO 156, BIO 171, BIO 172, BIO 255, BIO 265, or BIO 285
	16	Elective	Restricted Elective	3	Varies	ECN 158, 255, 256, ENG 163, 164, PHL 101, 103, PSY 160, SOC 155 or SPC 155
2nd Spring	17	CHM 270	Organic Chemistry II Lecture	3	CHM 260/261	
	18	CHM 271	Organic Chemistry II Lab	1	Co: CHM 270	
	19	Restricted Elective	BIO/CHM/PHY Elective	4	Varies	BIO 156, 172, 265, CHM 275, PHY 155 or PHY 255
	20	Restricted Elective	MTH/PHY Elective	3-4	Varies	MTH 157, 167, 160, 170, 172, PHY 155 or 255
	21	Elective	Restricted Elective	3	Varies	ECN 158, 255, 256, ENG 163, 164, PHL 101, 103, PSY 160, SOC 155 or SPC 155
	22	Elective	Restricted Elective	3	Varies	ECN 158, 255, 256, ENG 163, 164, PHL 101, 103, PSY 160, SOC 155 or SPC 155

Minimum Program Credits

63-66

BPP