

BIOLOGY, Associate in Science Degree - 3096

Science Department

CIP Code: 26.0101

The Biology AS degree prepares students who wish to transfer to a four-year institution that offers a bachelor's degree program in biology, pre-professional health careers, ecology, genetics, microbiology, or botany. Since the requirements of senior institutions vary widely, it is essential that students choose an intended transfer institution as soon as possible and carefully follow the program described in that college's catalog. This program may be completed at the Harrisburg, Lancaster and York campuses through on-campus/in-person instruction.

Transfer Opportunities

This transfer curriculum is provided as a guide for students planning to transfer to a baccalaureate degree granting institution.

Competency Profile

This curriculum is designed to prepare graduates of the program to:

- Apply knowledge of evolutionary theory to biological systems
- Effectively communicate scientific information
- Critically analyze peer-reviewed literature through the use of scientific databases
- Effectively apply the scientific method in both laboratory and field settings
- Objectively analyze and evaluate data to effectively solve biological problems

PROGRAM REQUIREMENTS (TOTAL CREDITS = 62)

General Education		Major Requirements		Other Required Courses	
ENGL 101 English Composition I	3	BIOL 102 General Biology II	4	Transfer Electives****	6
ENGL 102 English Composition II	3	CHEM 102 Organic Chemistry & Qualitative Analysis	4	MATH 116** College Algebra for Calculus	<u>4</u>
COMM 101 Effective Speaking	3	CHEM 203 Organic Chemistry I	4		10
Humanities & Arts Core Elective*	3	CHEM 204 Organic Chemistry II	4		
Mathematics Core Elective - MATH 104**	3	Biology Electives***	<u>8</u>		
Mathematics or Science Core Elective - CHEM 101	4		24		
Science with a Lab Core Elective - BIOL 101	4				
Social & Behavioral Science Core Elective	3				
First-Year Seminar Elective (Rec: SCI 100)	1				
Wellness Elective	<u>1</u>				
	28				

*Students are to select from the following courses: ART 181 or 182; ENGL 206; HUM 101, 115 or 201; MUS 104; PHIL 200; FMTH 101; or a foreign language course.

** May be replaced with a higher-level Math offering.

***Students select two courses from the following: BIOL 206 or 250; BIOL 212, 215 or 221.

****Students are to select courses that transfer to their intended four-year institution.

RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS

Part-time students can complete this program by taking one or more courses each semester.

Fall Semester I		Spring Semester I		Fall Semester II		Spring Semester II	
BIOL 101	4	BIOL 102	4	Biology Elective***	4	Biology Elective***	4
CHEM 101	4	CHEM 102	4	CHEM 203	4	CHEM 204	4
COMM 101	3	ENGL 102	3	MATH 116**	4	Humanities/Arts Core Elective*	3
ENGL 101	3	MATH 104**	3	Transfer Elective****	3	Social/Behavioral Science Core Elective	3
FYS Elective	1	Wellness Elective	1			Transfer Elective****	3