

BIOLOGY, Associate in Science Degree - 3096

Science Department

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. The complete program is available at the Harrisburg, Lancaster, and York campuses.

Career or 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:

- Demonstrate technical communication skills including written, spoken, and graphical presentation of scientific data
- Collect, manipulate, analyze, and interpret data
- Explain basic principles and concepts of science including the nature of science and scientific ethics as applied to the discipline
- Demonstrate competency in entry-level technology that supports the scientific process
- Apply the scientific method to solve scientific problems
- Utilize discipline-specific scientific scholarly resources such as library and web-based resources
- Conduct biological laboratory exercises using appropriate techniques and instrumentation

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 101 General Inorganic Chemistry***	4		
COMM 101 Effective Speaking	3	CHEM 102 Organic Chemistry & Qualitative Analysis	4		
Humanities & Arts Elective*	3	CHEM 203 Organic Chemistry I	4		
Social & Behavioral Science Elective	3	CHEM 204 Organic Chemistry II	4		
Mathematics Elective (MATH 104)**	3	Biology Electives	<u>8</u>		
Math or Science Elective (MATH 119)**	4	(Select BIOL 206 or 250; 212; 215; 221)	28		
Science with a Lab Elective (BIOL 101)	4				
Wellness	1				
First-Year-Seminar Elective (Rec: SCI 100)	<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; THTR 101; or a foreign language course.

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

*** Prerequisite is MATH 103.

****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 (Sci- w/Lab)	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 119 (Math/Science)	4	Humanities/Arts Elective	3
ENGL 101	3	MATH 104 (Math Elect)	3	Transfer Elective	3	Social/Behavioral Science Elective	3
FYS Elective	1	Wellness	1			Transfer Elective	3