Department	of Biological	and Allied	Health	Sciences
Bloomsburg	University			

Name		
Enterin	g Semester	

## **BACHELOR OF SCIENCE in BIOLOGY**

**Pre-medical Sciences Option** 

Revised 10/18 GPC

Concepts in Biology 1 (BIOL 114) and Concepts in Biology 2 (BIOL 115) should be taken during the freshman year; Microbiology (BIOL 242) and Cell Biology (BIOL 271) should be taken during the sophomore year. Anatomy and Physiology 1 and 2 (BIOL 173 and 174) should be taken before the junior year. A minimum of thirty-nine (39) credit hours in biology is required. In addition to the 27 credit hours of required, specified courses listed on this page, the student selects 12 credit hours of elective courses in biology.

Chemistry and mathematics courses should be scheduled as early as possible in the program of study.

Biology Core Requirements (27 cr hrs)  BIO 114 Concepts in Biology 1 BIO 115 Concepts in Biology 2 BIO 242 Microbiology BIO 271 Cell Biology BIO 332 Genetics BIO 351 Ecology	4 4 4 4 3 4	Chemistry Requirement (16 cr hrs)  CHEM 115 Chem for Sciences 1 CHEM 116 Chem for Sciences 2 CHEM 230 Fund of Organic Chem* CHEM 341 Biochemistry *Due to professional school requirements, CHEM 231 and CHEM 232 should be substituted.	4 4 4 4
Physiology Requirement (Select BIOL 479 AND one lecture course from among BIOL 472, 474, and 480) BIO 479 Integrated Physiol Lab With one of the following: BIO 472 Animal Cell Physiology BIO 474 Human Physiology BIO 480 Comp Animal Physiology	1 3 3 3	Physics Requirement (8 cr hrs; select one pair)  PHYS 201 Introductory Physics 1 PHYS 202 Introductory Physics 2 OR PHYS 211 General Physics 1 PHYS 212 General Physics 2	4 4 4 4
Biology Elective Requirement (12 cr hrs) Select 12 cr hrs of biology electives listed and list them below  BIO BIOL BIOL BIOL	3 3 3 3	Mathematics Requirement (6 cr hrs: select one pair)  MATH 123 Essentials of Calculus MATH 141 Introduction to Statistics OR MATH 125 Calculus 1 MATH 126 Calculus 2	3 3 3

## Biology Elective Courses\*

\*Other approved biology courses may be substituted with written consent of premedical sciences advisor.

#### Restrictions on Courses

- 1. A maximum of 3 cr hrs of BIOL 490 may be applied as biology elective credit toward the degree.
- 2. A maximum of 6 cr hrs from among BIOL 390, 391, 490, 493 and 494 may be applied as biology elective credit.
- 3. A limit of 6 cr hrs of Current Topics courses (BIOL 489) can be applied as elective biology credit.
- 4. Due to professional school requirements, BIOL 174 should be taken at BU or another four-year college or university. BIOL 173 is a prerequisite for BIOL 174.

# **General Education Requirements**

Goal 1: Communication* (7 points: 3	Goal 6: Social Sciences** (5 points; 2
departments)	departments)
ENG 101 Foundations of Coll Writ 3	PSYH 101 General Psych 3
CHEM 341 Biochemistry 1 1	SOC 211 Principles of Sociology 3
Goal 2: Information Literacy ( 2 points; 1 department)	Goal 7: Arts and Humanities (5 points; 2 departments)
Goal 3: Analytical and Quantitative Skills (5	Goal 8: Second Language (2 points; 1
points; 2 departments)  BIOL 114 Concepts in Biology 1 1  CHEM 115 Chem for the Sci 1 1  MATH 141 Intro Stats* 3  MATH 123 Essentials of Calc* 3  (*May substitute Calc 1 and 2 for 5 points)	department)
Goal 4: Cultures and Diversity (5 points; 2 departments)	Goal 9: Healthy Living (2 points; 1 department)
Goal 5: Natural Sciences (5 points; 2 departments)  BIOL 114 Concepts in Biology 1 3  CHEM 115 Chem for the Sci 1 3	Goal 10: Citizenship (2 points; 1 department)

<sup>\*</sup> A second course in English writing course must be used for communication to satisfy the requirements of professional school admission.

<sup>\*\*</sup> Courses in Psychology and Sociology are needed to satisfy the requirements of professional school admission.

# **Credit Counting Worksheet\***

Course	Name	Credits		Course	Name	Credits
Credits for	rom page 1	<u> </u>				,
Below lis	Below list all courses not listed on page 1					
	-					
	-					
	-					
	-					

<sup>\*</sup>Sum total of all courses must add up to 120 cr hrs or more.

The courses listed below are either required or recommended for entrance into medical science programs and should be taken as elective credit:

Anatomy & Physiology 1 (BIOL 173), Anatomy & Physiology 2 (BIOL 174), General Psychology (PYSCH 101), Principles of Sociology (SOC 211), and one of Medical Ethics (PHIL 290), Social Implications of Biology (BIOL 254), or Human Sexuality (BIOL 230).