## Department of Biological and Allied Health Sciences Bloomsburg University

Name	_
Entering Semester	_

## **BACHELOR OF SCIENCE in BIOLOGY**

1/11 MDW

## **Pre-Medical Sciences Option**

Concepts in Biology 1 (50-114) and Concepts in Biology 2 (50-115) should be taken during the freshman year; Microbiology (50-242) and Cell Biology (50-271) should be taken during the sophomore year. A minimum of thirty nine (39) credit hours in biology is required. In addition to the 27 credit hours of required courses listed on this page, the student must select 12 credit hours of elective courses in biology.

Chemistry and Mathematics courses should be scheduled as early as possible in the program of study. Required courses in Chemistry, Physics and Mathematics fulfill the Natural Science and Mathematics general education requirement. The student should complete the physics sequence and chemistry sequence through organic chemistry by the end of the junior year.

Biology	Core Requirement (27 hrs)			Chemistr	ry Requirement (20 hrs)		
50-114 50-115	Concepts in Biology 1 Concepts in Biology 2	4		52-115 52-116	Chem. for the Sciences 1 Chem. for the Sciences 2	4	
50-242 50-271	Microbiology Cell Biology	4 4		52-231 52-232	Organic Chemistry 1 Organic Chemistry 2	4 4	
50-332 50-351	Genetics Ecology	3 3		52-341	Biochemistry	4	
50-481	Senior Biology Seminar	1					
Dhysiala	av Baguirament (Salact EO)	170 /	\ NID				
<b>Physiology Requirement</b> (Select 50-479 AND one lecture course, either 50-474 or 50.480.							
substitute	ner physiology courses may be and with the written permission pre-professional advisor.)		е	pair. Note	Requirement (8 hrs; select of e: General Physics requires 1 and Calculus 2).	one	
50-479	Integrated Physiology Lab	1		54-111	Introductory Physics 1	1	
	0 . 0.			54-112	Introductory Physics 2	4	
50-474 50-480	Human Physiology Comparative Animal Phys	3		54-211 54-212	General Physics 1 General Physics 2	4 4	
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Biology	Elective Requirement (12 hr	c)					
Select 12 credits from the list of recommended biology electives on the following page.			Mathema one pair.)	tics Requirement (6 hrs: se	elect		
50				53-123	Essential of Calculus	3	
50 50				53-141	Introduction to Statistics	Ū	
50			Ш	53-125 53-126	Calculus 1 Calculus 2	3 3	

## **Recommended Biology Elective Courses**

	ourses may be substituted on of the student's pre-pro				Restrictions on Non-Classroom Courses
50-212 50-233 50-331 50-342 50-333 50-343 50-361 50-364 50-390 50-391 50-431 50-442 50-470 50-476 50-476 50-480 50-490 50-493 50-494	Vertebrate Zoology Human Genetics Embryology Medical Microbiology Molecular Biology Immunology Comp Vert Anatomy Vertebrate Histology Ug Research in Bio I Ug Research in Bio II Developmental Biology Virology Medical Parasitology Human Physiology* Neurophysiology Compar Animal Phys.* Internship BAHS Honors Indep. Study 1 Honors Indep. Study 2 t count as physiology requelective.	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	and		<ol> <li>A maximum of 3 credit hrs of 50-490 may be applied as biology elective credit toward the degree.</li> <li>A maximum of 6 credit hrs from among 50-390, 50-391, 50-490, 50-493 and 50-494 may be applied as biology elective credit toward the degree.</li> </ol>
Free Fle	ectives. List free elective o	courses	here Total	number o	f credit hrs must be at least 120. Note:
Use of 5	2-442 Biochemistry 2 or 5 ofessional fields may requ	2-321 A	nalytical Ch	emistry 1	will result in a minor in chemistry. Also, 1 and 2 (50-173 and 50-174) for

General Education Requirements						
Two cultural diversity courses (6 credit hrs) are required. Designate these with a + symbol.						
One course may be used to fulfill either the C Decision-Making requirements, and also be us						
Communication (9 hrs)  20-101 English Composition 1 3	only 6 ci Howeve must be requiren Suggest	s may test out of Composition 1, in which case redit hrs of communication courses are needed. r, one upper level writing-intensive English course substituted and can be used for the Group Anent.  ed communication electives include: a foreign e course; 25-103 Public Speaking.				
Quantitative-Analytical Reasoning (3 hrs) Fulfilled by mathematics requirement for majo		Values, Ethics (3 hrs.) Choose one. Other courses may be substituted with the written permission of the student's pre-professional advisor.  28-290 Medical Ethics 3 50-254 Social Implic. of Biol. 3 50-230 Human Sexuality 3				
GROUP C. Natural Science and Mathematic Fulfilled by biology, chemistry, physics, and m						
GROUP A. Humanities (12 credit hrs; 3 departments)		BROUP B. Social Sciences (12 credit hrs; 3   Lepartments)  Some pre-professional fields recommend by sychology courses. This should be considered in scheduling Group B courses.				
Fitness and Recreational Skills (2 cr hrs)						