Department of Biological and Allied Health Sciences Bloomsburg University

Name	
Entering Semester	

BACHELOR OF ARTS in BIOLOGY

Revised 3/19 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. In addition to the specified courses listed on this page, the student selects 13 credit hours of approved elective courses in biology and related sciences.

Chemistry and mathematics courses should be scheduled as early as possible in the program of study. *Applied Statistics for the Behavioral Sciences* (PSYCH 160) may be substituted for *Introduction to Statistics* (MATH 141) provided that a foundational math course is taken in the first year.

Biology Core Requirements (27 cr	hrs)	Physical Sciences Requirement (12 cr hrs)	
BIOL 114 Concepts in Biology 1	4	CHEM 115 Chem for the Sciences 1	4
BIOL 115 Concepts in Biology 2	4	CHEM 116 Chem for the Sciences 2	4
BIOL 242 Microbiology	4	OTIEM TTO OTIEM FOR THE GOICHOUS 2	•
BIOL 271 Cell Biology	4	AND EITHER	
		CHEM 230 Fund Organic Chemistry	4
BIOL 332 Genetics	3	OR	4
BIOL 351 Ecology	4		4
		PHYS 201 Introductory Physics 1	4
Physiology Requirement (Select BIC	DL 479		
AND one lecture course from among BIOL		Mathematics Requirement (3 cr hr)
474, 477, 478, and 480)	,	matrioriation respectively	,
BIOL 479 Integrated Physiology Lab	1	MATH 141 Introduction to Statistics	3
with one of the following:	_		
BIOL 472 Animal Cell Physiology	3		
BIOL 474 Human Physiology	3		
BIOL 477 Plant Physiology	3		
BIOL 478 Microbial Physiology	3		
BIOL 480 Comparative Animal Physiol	3		
Biology and Other Sciences Elect Select among biology, marine science, che them below.	`	•	,
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Biology Elective Courses		Marine Science Courses	
BIOL 200 Dendrology	3	MARSCI 221 Marine Invertebrates	3
BIOL 211 Invertebrate Zoology	3	MARSCI 241 Marine Biology	3
BIOL 212 Vertebrate Zoology	3	MARSCI 250 Wetlands Ecology	3
BIOL 222 Comp Biol Plants	3	MARSCI 260 Marine Ecology	3
BIOL 233 Human Genetics	3	MARSCI 300 Behavior Marine Org	3
BIOL 252 Field Zoology	3 3 3 3 3	MARSCI 330 Tropical Invertebrates	3
BIOL 253 Freshwater Biology	3	MARSCI 334 Marine Embryology	3
BIOL 263 Field Botany	3	MARSCI 342 Marine Botany	3
BIOL 333 Molecular Biology	3	MARSCI 343 Icthyology	3
BIOL 334 Molecular Biology Lab	1	MARSCI 344 Anat Marine Chordates	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
BIOL 342 Medical Microbiology	3	MARSCI 345 Marine Ornithology	3
BIOL 343 Immunology	3	MARSCI 394 Comp Phys Marine Org	3
BIOL 350 Plant Pathology	3	MARSCI 431 Ecol Marine Plankton	3
BIOL 361 Comp Vert Anatomy	3	MARSCI 432 Marine Evol Ecol	3
BIOL 364 Vertebrate Histology	3 3 3 3	MARSCI 441 Biology of Mollusks	3
BIOL 390 UG Research in Biol 1	3	MARSCI 464 Biol Oceanography	3
BIOL 391 UG Research in Biol 2	3	MARSCI 470 Research Diver Meth	3
BIOL 411 Radiation Biology	3	MARSCI 490 Aquaculture	3
BIOL 420 Global Change Biology	3	MARSCI 491 Coral Reef Ecology	3
BIOL 430 Evolution	3	MARSCI 492 Marine Mammals	3
BIOL 431 Developmental Biology	3	MARSCI 493 Behavioral Ecology	3
BIOL 432 Microbial & Molec Genet	3	,	
BIOL 435 Bioinformatics	3		
BIOL 442 Virology	3 3 3 3 3 3 3 3 3 3	Other Science Elective Courses	
BIOL 443 Advanced Immunology	3	CHEM 230 Fund Organic Chemistry#	4
BIOL 444 Tissue Culture	3	CHEM 341 Biochemistry	4
BIOL 445 Pharm for Health Sciences	3	EGGS 100 Intro Environmental Science	3
BIOL 450 Mycology	3	EGGS 120 Physical Geology	4
BIOL 451 Conservation Biology	3 3 3	EGGS 259 Oceanography	3
BIOL 452 Limnology	3	MATH 123 Essentials of Calculus	3
BIOL 455 Environmental Microbiology	3 3	PHYS 111 Introductory Physics 1#	4
BIOL 457 Entomology	3	PHYS 112 Introductory Physics 2	4
BIOL 459 Ornithology	3	#applicable only if not used for Physical Sciences	
BIOL 460 Population Biology	3	Requirement	
BIOL 461 Animal Behavior			
BIOL 470 Medical Parasitology	3 3 3 3 3 3 3		
BIOL 476 Neurophysiology	3		
BIOL 481 Senior Biology Seminar	3	Restrictions on Courses	
BIOL 489 Current Topics in Biol*	3	1. A maximum of 3 cr hrs of BIOL 490 may	
BIOL 490 Internship Biol/AHS	3	be applied as biology elective credit toward	
BIOL 493 Honors Indep Study 1	3	the degree. 2. A maximum of 6 cr hrs from among BIOL	
BIOL 494 Honors Indep Study 2	3	390, 391, 490, 493 and 494 may be applied	
Biol to thenero masp stady 2		as biology elective credit.	
		*Current Topics in Biology may be repeated	
		only once if the topic is different, giving a	
		maximum of 6 credits.	

General Education Requirements

Goal 1: Communication (7 points: 3 departments)		Goal 6: Social Sciences (5 points; 2 departments)
ENG 101 Foundations of Coll Writ	3	
BIOL 290 Writing in Biology*	2	
Diol 200 Willing in Diology	-	
Goal 2: Information Literacy (2 points; department)	; 1	Goal 7: Arts and Humanities (5 points; 2 departments)
BIOL 290 Writing in Biology*	1	
		<u>-</u>
		
Goal 3: Analytical and Quantitative Spoints; 2 departments)	kills (5	Goal 8: Second Language (2 points; 1 department)
CHEM 115 Chem for the Sci 1	1	
BIOL 114 Concepts in Biology 1	1	
MATH 141 Intro Stats	3	
Goal 4: Cultures and Diversity (5 point departments)	ts; 2	Goal 9: Healthy Living (2 points; 1 department)
Goal 5: Natural Sciences (5 points; 2		Goal 10: Citizenship (2 points; 1 department)
departments)		Goal To. Citizenship (2 points, 1 department)
BIOL 114 Concepts in Biology 1	3	
CHEM 115 Chem for the Sci 1	3	
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^{*} recommended

Credit Counting Worksheet

Course	Name	Credits	Course	Name	Credits
Credits fr	om page 1				
Below lis	t all courses	not listed on page 1	<u> </u>		
					
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Sum total of all courses must add up to 120 cr hrs or more.