Department of Biological	and Allied	Health	Sciences
Bloomsburg University			

Name	
Entering Semester	

BACHELOR OF ARTS in BIOLOGY NATURAL HISTORY OPTION

Revised 10/21 ARH

Concepts in Biology I (BIOLOGY 114) and Concepts in Biology II (BIOLOGY 115) should be taken during the freshman year. Microbiology (BIOLOGY 242) should be taken during the sophomore year.

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 F	Requirement (22-23 hrs)		Geological S	cience Requirement (8 hrs)
BIOLOGY 114	Concepts in Biology I	4	EGGS 120	Physical Geology	4
BIOLOGY 115 BIOLOGY 242	Concepts in Biology II Microbiology	4 4	EGGS 130	Historical Geology	4
BIOLOGY 233	Human Genetics	3	Mathematics	Requirement (3 hrs)	
*BIOLOGY 351	Ecology	4	MATH141	Introduction to Statistics	s 3
BIOLOGY 430	Evolution OR	3	Anthropolog	y Requirement (3 hrs)	
EGGS 365	Intro. to Paleontology	4	ANTHRO 220	Human Origins	3
*Fall only course					
Organismal and Requirement (9			Biology and C	Other Science Electives	(6 hrs)
	rses among biology and nal and field courses			biology, marine science, g ses on page 2 ^{1,2,3,4} . List b	
		3			3
		3			3
		3			

Restrictions Upon the Application of Electives:

¹Research and Internship courses may be applied to the Organismal and Field Course requirement if the topic or placement is appropriate and is approved by your advisor. Otherwise, research and internship courses will count as a Biology and Other Science electives.

²Restrictions on Non-Classroom Courses: 1. A maximum of 3 credit hours of BIOL 490 may be applied as major elective credit toward the degree. 2. A maximum of 6 credit hours from among BIOLOGY 390, 391, 490, 493 and 494 may be applied as major elective credit toward the degree.

³Introduction to Paleontology (EGGS 365) may be used as a major elective if Evolution (BIOLOGY 430) is used to satisfy the core requirement.

⁴Appropriate transfer courses may be counted as Organismal and Field Courses or as Biology and Other Science Electives upon approval of your advisor.

Organismal and Field Courses. Any of the following
Biology (prefix BIOLOGY) courses may be used to satisfy Organismal
and Field Course Requirements. Once Organismal and Field Course
Requirements are met, additional courses taken from this list will count
as Biology and Other Science Electives.

200	Dendrology	3
211	Invertebrate Zoology	3
212	Vertebrate Zoology	3
213	Integrative Vertebrate Zoology	3
222	Comparative Biology of Plants	3
252	Field Zoology	3
253	Fresh Water Biology	3
263	Field Botany	3
361	Comparative Vertebrate Anatomy	3
390	Research in Biology 1 ^{1,2}	3
452	Limnology	3
455	Environmental Microbiology	3
457	Entomology	3
459	Ornithology	3
461	Animal Behavior	3
490	Internship in Biology ^{1,2}	3
493	Honors Independent Study ^{1,2}	3
(prefix BIOL	Elective Courses. Any of the following OGY) courses may be used to satisfy Biology and ctive requirements, but no more than 2 classes ma	Other

at the 100 level.

at the 100 le		
103	Biodiversity and Conservation	3
271	Cell Biology	4
332	Genetics	3
333	Molecular Biology	3
334	Molecular Biology Laboratory	1
342	Medical Microbiology	3
343	Immunology	3
350	Plant Pathology	3 3 3
363	Vertebrate Histology	
391	Research in Biology 2 ²	3 3 3 3
411	Radiation Biology	3
420	Global Change Biology	3
421	Ecosystems Management	3
430	Evolution ³	3
431	Developmental Biology	3
432	Microbial and Molecular Genetics	3 3 3
435	Bioinformatics	3
442	Virology	3
445	Pharmacology	
451	Conservation Biology	3
460	Population Biology	3
470	Medical Parasitology	3
472	Animal Cell Physiology	3
473	Cancer Biology	3
474	Human Physiology	3
476	Neurophysiology	3

Plant Physiology

477

Marine Science Courses. Any of the following Marine Science (prefix MARSCI) courses may be used to satisfy Organismal and Field Course Requirements. Once Organismal and Field Course Requirements are $\dot{\text{met}},$ additional courses taken from this list will count as Biology and Other Science Electives.

221	Marine Invertebrates	3
241	Marine Biology	3
250	Wetland Ecology	3
260	Marine Ecology	3
298	Physiology Marine Invert.	3
300	Behavior Marine Organisms	3
320	Marine Microbiology	3
330	Tropical Invertebrates	3
342	Marine Botany	3
343	Marine Ichthyology	3
345	Marine Ornithology	3
394	Comp Phys Marine	3
431	Ecology of Marine Plankton	3
432	Marine Evolutionary	3
441	Biology of Molluscs	3
464	Biological Oceanography	3
470	Research Diver Methods	3
490	Marine Aquaculture	3
491	Coral Reef Ecology	3
492	Marine Mammals	3
493	Behavioral Ecology	3

Other Science Elective Courses. Any of the following may be used to satisfy Biology and Other Science Elective requirements, but no more than 2 classes may be taken at the 100 level.

EGGS 100	Intro. to Environ. Science	3	
EGGS 103	Dinosaurs	3	
EGGS 106	The Planets	3	
EGGS 150	Quant. Meth. in Earth Sci.	3	
EGGS 242	Map Use and Analysis	3	
EGGS 255	Meteorology	3	
EGGS 259	Oceanography	3	
EGGS 260	Earth Materials	4	
EGGS 264	Applied Cartography	4	
EGGS 265	Geomorphology	4	
EGGS 330	Special Topics in Fld. Geol.	3	
EGGS 360	Principles of GIS 1	3	
EGGS 365	Intro. to Paleontology ³	4	
CHEM 101	Introduction to Chemistry	3	
CHEM 115	Chem. for the Sciences I	4	
CHEM 116	Chem. for the Sciences II	4	

	(Biology Elective Courses continued)	-
479	Integrated Phys. Laboratory	1
480	Comparative Animal Phys.	3
489	Current Topics in Biology	3
494	Honors Ind. Study 2 ²	3
And any other	new Biology or Marine Science Course design	ned for

majors as they are added.

NOTES 1,2,3 As explained on previous page.

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General Education Courses for the Natural History Option

Required courses which meet goals are in italics) Suggested courses meeting goals are listed but not italicized)			GOAL 5: NATURAL SCIENCES (5 points: 2 departments - SATISFIED BY MAJOR)				
		ected courses which meet goals	-	BIOLOGY	114	Concepts in Biology 1	3
				ANTHRO	220	Human Origins	2
GOAL 1: COM	MUNIC	CATION		GOAL 6: SOC	IAL SO	CIENCES	
(7 points: 3 de	epartm	ents)		(5 points: 2 d	epartm	ents)	
ENGLISH	101	Foundations of College Writing	3	ANTHRO	101	Intro. To Anthropology	1
BIOLOGY	290	Writing in Biology	2	ANTHRO	200	Prin. Cultural Anthropology	1
ARTSTUDIO	111	Introductory Drawing	1	ANTHRO	210	Intro. Prehistoric Archaeology	1
ARTSTUDIO	210	Life Drawing	1	EGGS	102	World Cultural Geography	1
ARTSTUDIO	281	Introductory Photography	1	EGGS	104	World Regional Geography	2
ARTSTUDIO	291	Introductory Digital Art	1	EGGS	105	Environ. Issues and Choices	1
COMMSTUD	102	Public Speaking	3	POLISCI	101	Elements of Political Sciences	2
INTSTUDY	231	Technical Writing	2	1 OLIOOI		Elements of Femiliaal Colonices	_
POLISCI	101	Elements of Political Sciences	1				_
FOLISCI	101	Liernents of Folitical Sciences	'				-
			_				_
(2 points: 1 de	epartm	ent)		GOAL 7: ART	_	HUMANITIES	
, , , , , , , , , , , , , , , , , ,				()			
BIOLOGY	290	Writing in Biology	1	ARTHISTRY	101	Introduction to Art History	1
EGGS	105	Environ. Issues and Choices	1	ARTSTUDIO	111	Introductory Drawing	2
INTSTUDY	231	Technical Writing	1	ARTSTUDIO	210	Life Drawing	2
			_	ARTSTUDIO	281	Introductory Photography	2
			_	ARTSTUDIO	291	Introductory Digital Art	2
				PHIL	111	Introduction to Philosophy	3
COAL 2: ANA	I VTIC	AL AND QUANTITATIVE SKILLS		THEATER	102	Introduction to Theater	3
(5 points: 2 de			•	INEATER	102	Introduction to meater	3
(o points: 2 di	cpartin	ents)					_
BIOLOGY	114	Concepts in Biology	1				_
MATH	141	,	3				_
EGGS	101	Intro. To Physical Geography	1				
EGGS	150	Quant. Meth. in Earth Sci.	3	GOAL 8: SECOND LANGUAGE (2 points: 1 department - SATISFIED BY MAJOR)			
GOAL 4: CUL	TURES	S AND DIVERSITY		language	102	foreign language	2
(5 points: 2 de	epartm	ents)					
language	102	foreign language	1	GOAL 9: HEA	LTHY	LIVING	
ANTHRO	220	Human Origins	1	(2 points: 1 de	epartm	ent)	
ANTHRO	101	Intro. To Anthropology	1				
ANTHRO	200	Prin. Cultural Anthropology	1	EXERSCI	250	Lifeguarding	2
ANTHRO	210	Intro. Prehistoric Archaeology	1				
ARTHISTRY	101	Introduction to Art History	2				_
EGGS	102	World Cultural Geography	2				_
			H				
EGGS	104	World Regional Geography	1	004: 40 5:-		LUD	
POLISCI	120	U. S. Government	1	GOAL 10: CIT	_		
SOC	215	Racial and Ethnic Minorities	3	(2 points: 1 de	•		
			_	EXERSCI	250	Lifeguarding	1
			_	POLISCI	120	U. S. Government	2
			_				_
			_		_		