Department of Biological and
Allied Health Sciences
Bloomsburg University

Name

Entering Semester _____

BACHELOR of SCIENCE in BIOLOGY

Revised 6/13 MDW

Environmental Biology Option

Concepts in Biology 1 (BIOL114) 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.

Biology C	ore Requirement (23 cr			Enviro Sci (7 cr hrs)	and Geology Requireme	nt	
BIÓL 114	Concepts in Biology 1	4		EGGS 100	Intro Environmental Science	3	
BIOL 115	Concepts in Biology 2	4	П	EGGS 120	Physical Geology	4	
BIOL 242	Microbiology	4			,		
BIOL 271	Cell Biology	4					
BIOL 332	Genetics	3		Physics R	equirement (4 cr hrs)		
BIOL 351	Ecology	3					
BIOL 481	Senior Biology Seminar	1		PHYS 111	Intro Physics 1	4	
Mathemat	ics Requirement (6 cr h	nrs)		Chemistry	Requirement (11-12 cr hrs)		
Mathemat	ICS Requirement (6 cr h	nrs) 3		Chemistry CHEM 115	Chem for Sciences 1	4	
	•	,				4 4	
MATH 141	•	,		CHEM 115	Chem for Sciences 1		
MATH 141	Introduction Statistics	3		CHEM 115 CHEM 116 Choose one	Chem for Sciences 1		
MATH 141 Choose one	Introduction Statistics e of the following Statistical Methods Design and Analysis	3		CHEM 115 CHEM 116	Chem for Sciences 1 Chem for Sciences 2 of the following: Fundamentals of Organic		
MATH 141 Choose one MATH 240 MATH 342	Introduction Statistics e of the following Statistical Methods Design and Analysis of Experiments	3 3 3		CHEM 115 CHEM 116 Choose one CHEM 230	Chem for Sciences 1 Chem for Sciences 2 of the following: Fundamentals of Organic Chemistry OR	4	
MATH 141 Choose one MATH 240	Introduction Statistics e of the following Statistical Methods Design and Analysis of Experiments Applied Regression	3		CHEM 115 CHEM 116 Choose one	Chem for Sciences 1 Chem for Sciences 2 of the following: Fundamentals of Organic	4	
MATH 141 Choose one MATH 240 MATH 342	Introduction Statistics e of the following Statistical Methods Design and Analysis of Experiments	3 3 3		CHEM 115 CHEM 116 Choose one CHEM 230	Chem for Sciences 1 Chem for Sciences 2 of the following: Fundamentals of Organic Chemistry OR	4	

		ental Studies Electives			
Select 21 credits; 12 credits must be in Biology or Marine Science					
Biology Elective Courses BIOL 200 Dendrology BIOL 211 Invertebrate Zoology BIOL 212 Vertebrate Zoology BIOL 222 Comp Biol Plants BIOL 252 Field Zoology BIOL 253 Freshwater Biology BIOL 263 Field Botany BIOL 350 Plant Pathology BIOL 350 Plant Pathology BIOL 390 UG Research in Biol 1 BIOL 391 UG Research in Biol 2 BIOL 420 Global Change Biology BIOL 430 Evolution BIOL 450 Mycology BIOL 451 Conservation Biology BIOL 455 Environmental Microbiology BIOL 457 Entomology BIOL 459 Ornithology BIOL 460 Population Biology BIOL 461 Animal Behavior BIOL 477 Plant Physiology	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Marine Science Courses MARSCI 221 Marine Invertebrates MARSCI 241 Marine Biology MARSCI 250 Wetlands Ecology MARSCI 260 Marine Ecology MARSCI 300 Behavior Marine Org MARSCI 300 Behavior Marine Org MARSCI 330 Tropical Invertebrates MARSCI 334 Marine Embryology MARSCI 344 Marine Botany MARSCI 343 Icthyology MARSCI 343 Icthyology MARSCI 344 Anat Marine Chordates MARSCI 345 Marine Ornithology MARSCI 394 Comp Phys Marine Org MARSCI 394 Comp Phys Marine Org MARSCI 431 Ecol Marine Plankton MARSCI 432 Marine Evol Ecol MARSCI 432 Marine Evol Ecol MARSCI 441 Biology of Mollusks MARSCI 464 Biol Oceanography MARSCI 470 Research Diver Meth MARSCI 490 Aquaculture MARSCI 491 Coral Reef Ecology MARSCI 492 Marine Mammals MARSCI 493 Behavioral Ecology	3 3 3 3		
 BIOL 480 Compar Animal Physiology BIOL 489 Current Topics in Biology BIOL 490 Internship Biol/AHS BIOL 493 Honors Indep Study 1 BIOL 494 Honors Indep Study 2 Chemistry Elective Courses CHEM 230 Fund Organic Chemistry* CHEM 321 Analytic Chemistry 1* *course may not count for both a requirement and an elective Physics Elective Courses PHYS 112 Intro Physics 2	3 3 3 3 3 3 4 3 4 4 4	Environmental, Geographical, and Geological Sciences Elective Courses EGGS 255 Meteorology EGGS 259 Oceanography EGGS 260 Earth Materials EGGS 301 Water Resources Manag EGGS 302 Land Resources Manag EGGS 303 Soil Resources Manag EGGS 304 Environmental Valuation EGGS 305 Environ Risks Hazards EGGS 320 Remote Sensing EGGS 358 Environ Conservation EGGS 360 Principles of GIS 1 EGGS 370 Surface Hydrology EGGS 460 Aqueous Geochemistry	3 3 3 4 3 4 3 3 3 3 3 3 4 4 5 6 7 7		
degree.	-	be applied as biology elective credit tow 91, 490, 493 and 494 may be applied as			

elective credit.3. All Current Topics courses, undergraduate and honors research, and internships should have an environmental focus.

General Education Requirements

Two cultural diversity courses (6 cr hr) are required. Designate these with a + symbol.

One Course may be used to fulfill either the Communication OR Values, Ethics, and Responsible Decision-Making requirements and also be used to complete a Group A or a Group B requirement.

Communication (9 cr hrs)		ENGLISH 201 Composition 2 can be substituted for Writing in Biology. Suggested communication	
ENG 101 BIOL 290	English Composition I Writing in Biology	3 3 3	electives include a foreign language course or COMMSTUD 103 Public Speaking.

Quantitative-Analytical Reasoning (3 cr hrs)	Values, Eth	iics, (3 cr hrs)		
Fulfilled by mathematics requirement for major.	Choose one	of the following:		
GROUP C. Natural Science and Mathematics (12 cr hrs) Fulfilled by biology,	EGGS 105	Environmental Issues and Choices OR	3	
chemistry, physics, mathematics, and geology requirements for the major.	BIOL 250	Biodiversity and Conservation Biology	3	

GROUP A. Humanities & Arts (12 cr hrs; 3 departments)	GROUP B. Social Sciences (12 cr hrs; 3 departments)	

Fitness and Recreational Skills (2 cr hrs)	

Free Electives. List free elective cours	ses here. Total num	ber of cr brs must be at least 120	
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