

BIOLOGY (BA DEGREE TRACK)

(56 credits, plus an approved minor - typically 18-22 credits - or second major)

Code	Title	Credits
Core Requirements (23 Credits)		
BIO201 & BIO211	General Biology I and Gen Bio 1 Lab ¹	4
BIO202 & BIO212	General Biology II and Gen Bio 2 Lab ¹	4
BIO320 & BIO321	Genetics and Genetics Lab ²	4
BIO322	Evolution ²	3
CHE201 & CHE211	General Chemistry I and General Chemistry I Lab ³	4
CHE202 & CHE212	General Chemistry II and General Chemistry II Lab ³	4
Participation in Lecture Series (6 hours)		0
Biology Electives (25 Credits)		
Upper-division (300-level or above) Biology or selected Biochemistry courses and/or BIO296 Departmental Elective, with at least 3 credits in each of the following categories:		25
Environmental Biology:		
BIO301	Field Biology Fall	
BIO340	Ecology	
BIO425	Plant Ecophysiology	
BIO440	Freshwater Biology	
BIO445	Ornithology	
Evolution & Diversity of Life:		
BIO305	Plant Morphology	
BIO307	Comparative Vertebrate Anatomy	
BIO360	Virology	
BIO370	Animal Physiology	
BIO412	Evolutionary Theory	
BIO418	Animal Behavior	
BIO435	Entomology	
BIO446	Cellular Evolution	
Architecture of Life:		
BIO311	Developmental Plant Anatomy	
BIO350	General Microbiology	
BIO358	Molecular Biology	
BIO359	Cell Biology	
BIO388	Biological Chemistry	
BIO413	Developmental Biology	
BIO444	Nucleic Acid Technologies	
BIO448	Host-Microbe Coevolution	
BIO451	Capstone Microbiology	
BCM360	Protein Structure and Function	
BCM461	Biochemistry 1	
Capstone:		
BIO4xx	Any 400-level Biology course	
Cognate Requirements (8 Credits)		

Select 8 credits of the following: 8

CHE318 & CHE306	Organic Chemistry I and Organic Chemistry I Lab
CHE319 & CHE309	Organic Chemistry II and Organic Chemistry II Lab
CPS104	Visual Programming
CPS210	Computer Science I: Foundations
CPS310	Computer Science II: Data Structures
GLG201 & GLG211	Physical Geology and Physical Geology Laboratory
GLG202	Historical Geology
MAT241	Introduction to Statistics
MAT251	Calculus I
MAT252	Calculus II
PHY201 & PHY211	General Physics 1 and Physics 1 Laboratory
PHY202 & PHY212	General Physics 2 and General Physics 2 Lab
PHY221 & PHY211	Fundamental Physics 1 and Physics 1 Laboratory
PHY222 & PHY232	Fundamental Physics II and Fundamental Physics 2 Lab

Total Credits 56

¹ BIO201 General Biology I /BIO211 Gen Bio 1 Lab and BIO202 General Biology II /BIO212 Gen Bio 2 Lab must be taken in sequence. A minimum grade of C- is required in BIO201 General Biology I and BIO202 General Biology II .

² A minimum grade of C- in BIO320 Genetics is required to advance to most upper-division biology courses (300 and above).

³ A minimum grade of C- is required to advance from CHE201 General Chemistry I to CHE202 General Chemistry II and from CHE202 General Chemistry II to CHE318 Organic Chemistry I .

Additional considerations for admission to medical, dental and veterinary schools: Contact the [Pre-Health Advisor \(adaird@newpaltz.edu\)](mailto:adaird@newpaltz.edu) for information.