

INTEGRATIVE BIOLOGY (BS DEGREE TRACK)

(72 credits)

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
Concentration Electives (25 Credits)		
Select 25 credits of the following:		25
Environmental Biology (at least 3 credits):		
BIO301	Field Biology Fall	
BIO340	Ecology	
BIO425	Plant Ecophysiology	
BIO440	Freshwater Biology	
BIO445	Ornithology	
Evolution & Diversity of Life (at least 3 credits):		
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 (at least 3 credits):		
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	
Capstone: Select at least 6 credits, including any 400-level Biology course (BIO4xx)		
Cognate Requirements (24 Credits)		
CHE318 & CHE306	Organic Chemistry I and Organic Chemistry I Lab	4
CHE319 & CHE309	Organic Chemistry II and Organic Chemistry II Lab	4

MAT251	Calculus I	4
MAT252	Calculus II	4
PHY201 & PHY211	General Physics 1 and Physics 1 Laboratory	4
PHY202 & PHY212	General Physics 2 and General Physics 2 Lab	4
Total Credits		72

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 a prerequisite for several 300-level biology courses. In addition, most 400-level biology courses require a minimum grade of C- in both BIO320 Genetics and BIO322 Evolution.

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 graduate programs in biology: Research experience. You should begin to explore research options during your sophomore year.

Additional considerations for admission to medical, dental and veterinary schools: The requirements for these professional schools are constantly evolving and vary from institution to institution. Please contact the [Health Career Advisor](#).