

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	
BIO350	General Microbiology	
BIO370	Animal Physiology	
BIO412	Evolutionary Theory	
BIO418	Animal Behavior	
BIO435	Entomology	
BIO445	Ornithology	
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	
Capstone (at least 6 credits):		
BIO4xx	400-level Biology courses	
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
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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 graduate programs in biology

It is important that students interested in graduate study be able to demonstrate undergraduate 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 Pre-Health Advisor.