BIOLOGY MAJOR - BS

Requirements for a Major in Biology Bachelor of Science

Requireme Bachelor of So	cience	
Code	Title Hou	rs
Required Courses		
BIOL 121	Foundations of Experimental Biology	4
BIOL 123	Principles in Molecular Biology	3
BIOL 200	Genetics	4
BIOL 205	Evolution	3
Select one semes	ter of chemistry ¹	4
	nal courses above the 180-level. At least one courste8-2 m each of the following three groups: ^{2,3}	24
Cell and Molecular		
BIOL 201	Cell Biology	
BIOL 311	Microbiology	
BIOL 320	Reproductive & Stem Cell Biology	
BIOL 351	Biological Microscopy	
BIOL 353	Molecular Genetics	
BIOL 354	Human Genetics	
BIOL 442	Immunology	
BIOL 463	Cellular & Molecular Neurobiology	
CHEM 407	Biochemistry I	
CHEM 408	Biochemistry II	
Organismal		
BIOL 202	Plant Taxonomy	
BIOL 204	Plant Physiology	
BIOL 230	Ichthyology	
BIOL 248	Entomology	
BIOL 251	Human Anatomy and Physiology I	
BIOL 252	Human Anatomy and Physiology II	
BIOL 260	Vertebrate Field Biology	
Ecology		
BIOL 235	Marine Biology	
BIOL 249	Medical & Veterinary Entomology	
BIOL 310	Freshwater Ecology	
BIOL 325	Ecology	
BIOL 327	Tropical Biodiversity	
BIOL 330	Human Ecology and Evolution	
BIOL 335	Conservation Genetics	
BIOL 340	Ecological Simulation	
BIOL 360	Microbial Symbiosis	
Electives		
BIOL 315	Infectious Disease & Public Health	
BIOL 350	Biostatistics ⁵	
BIOL 450	Internship in Biology	
or BIOL 457	Internship in Biology (Paid) \$200 fee	
BIOL 491	Independent Study	
BIOL 492	Independent Study	
	Descende in Dislama	

BIOL 493

BIOL 494

Research in Biology

Research in Biology

BIOL 496	Senior Project				
BIOL 498	Senior Project				
MATH 345	Mathematical Biology	10.10			
MATH 113	our additional courses from the following: ⁴	12-16			
MATH 113 MATH 131	Calculus I				
MATH 131 MATH 132	Calculus I Calculus II				
CHEM 261	Organic Chemistry				
CHEM 201 CHEM 262	Organic Chemistry				
PHYS 151	Introductory Physics				
PHYS 152	Introductory Physics				
CSCI 111	Introduction to Computer Science				
CSCI 112	Data Structures				
NSCI 330	Behavioral Neuroscience Techniques				
NSCI 331	Behavioral and Statistical Modeling				
BIOL 350	Biostatistics				
BIOL 494	Research in Biology				
BIOL 494	Senior Project				
Capstone					
BIOL 499	Biology Capstone ⁶	3			
Total Hours	2.0.039 0400000	51-61			
		51 01			
1					
At or above the C	CHEM 215 level				
2					
	the six courses must be four hour				
	04 or BIOL 498 may substitute for one of these 4 ho	ur			
courses.					
3					
	o be used to meet this requirement.				
4					
	four additional courses must be distinct from the si	х			
	ne 180-level listed above.				
5					
We encourage all students to consider BIOL 350 as one of the three					
additional electiv	/es.				
6					
Must successful	ly complete BIOL 499 in the senior year.				
All courses counted towards the major must be completed with a					
	minimum grade of C-, and BIOL 121 and BIOL 123 must be passed with at				
least a C- as a prerequisite for many biology courses numbered 200 and					
	of C-, and BIOL 121 and BIOL 123 must be passed v erequisite for many biology courses numbered 200	and			
above. Students	of C-, and BIOL 121 and BIOL 123 must be passed w erequisite for many biology courses numbered 200 double-majoring in biology, particularly those with	and their			
above. Students second major in	of C-, and BIOL 121 and BIOL 123 must be passed w erequisite for many biology courses numbered 200 double-majoring in biology, particularly those with cognate disciplines, such as math, physics, chemis	and their			
above. Students second major in	of C-, and BIOL 121 and BIOL 123 must be passed w erequisite for many biology courses numbered 200 double-majoring in biology, particularly those with	and their			
above. Students second major in and psychology,	of C-, and BIOL 121 and BIOL 123 must be passed w erequisite for many biology courses numbered 200 double-majoring in biology, particularly those with cognate disciplines, such as math, physics, chemis	and their			
above. Students second major in and psychology, Requirements for	of C-, and BIOL 121 and BIOL 123 must be passed w erequisite for many biology courses numbered 200 double-majoring in biology, particularly those with cognate disciplines, such as math, physics, chemis must still complete the biology capstone. r a Teaching Endorsement in Biology	and their stry,			
above. Students second major in and psychology, Requirements for The program requ	of C-, and BIOL 121 and BIOL 123 must be passed w erequisite for many biology courses numbered 200 double-majoring in biology, particularly those with cognate disciplines, such as math, physics, chemis must still complete the biology capstone.	and their stry, ion			
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above. Students second major in and psychology, Requirements fo The program req for the purpose o other Biology ma major in Biology students must in	of C-, and BIOL 121 and BIOL 123 must be passed w erequisite for many biology courses numbered 200 double-majoring in biology, particularly those with the cognate disciplines, such as math, physics, chemis must still complete the biology capstone. r a Teaching Endorsement in Biology uirements of a student planning to minor in educat of certification in Biology vary slightly from those of ajors. All students must complete the requirements as listed above. While completing the major, educat	and their try, ion for a ation nd			

education-minor-secondary/). Not all courses required for certification will apply to the Biology major.

Code	Title	Hours			
BIOL 121	Foundations of Experimental Biology	4			
BIOL 123	Principles in Molecular Biology	3			
BIOL 200	Genetics	4			
BIOL 201	Cell Biology	4			
BIOL 205	Evolution	3			
BIOL 499	Biology Capstone	3			
CHEM 215	Principles of Chemistry \$50 course fee	4			
Select one of the following botany courses: 4					
BIOL 202	Plant Taxonomy				
BIOL 204	Plant Physiology				
Select one of the	following organismal courses:	4			
BIOL 230	Ichthyology				
BIOL 248	Entomology				
BIOL 260	Vertebrate Field Biology				
Select one of the	following anatomy/physiology courses:	4			
BIOL 251	Human Anatomy and Physiology I				
BIOL 252	Human Anatomy and Physiology II				
Select one of the	following ecology courses:	4			
BIOL 235	Marine Biology				
BIOL 325	Ecology				
Select one of the following physics courses:					
PHYS 105	A Hitchiker's Guide to Physics (With Apologies to Douglas Adams)	D			
PHYS 151	Introductory Physics				
Select one of the following earth science courses: 4					
ASTR 101	Introductory Astronomy				
CHEM 130	Environmental Chemistry				
GEOL 101	Introduction to Geology and the Environment				
GEOL 102	A Geologic History of Earth				
Select one of the following statistics courses:					
MATH 111	Introduction to Statistics				
MATH 113	Introduction to Statistics				
BIOL 350	Biostatistics				
Total Hours		52-53			