

# Biology for Educators Emphasis

## BIOLOGY Major

Code	Title	Credits
<b>Supporting Courses</b>		25-29
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms, Ecology, and Evolution and Principles of Biology Lab: Organisms, Ecology, and Evolution	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
MATH 260	Introductory Statistics	
<b>Mathematics (choose one course):</b>		
COMP SCI 256	Introduction to Software Design	
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
<b>Writing (choose one course):</b>		
ENG COMP 105	English Composition II: Composition and Rhetoric	
INFO SCI 390	Technical Writing	
<b>Upper Level Courses</b>		30-33
<b>Required courses</b>		
BIOLOGY 307 & BIOLOGY 308 or BIOLOGY 302	Cell Biology and Cell Biology Laboratory Principles of Microbiology	
BIOLOGY 303	Genetics	
BIOLOGY 309	Evolutionary Biology	
BIOLOGY 311 or BIOLOGY 346	Plant Physiology Comparative Physiology	
ENV SCI 302	Principles of Ecology	
<b>Choose 12-14 credits of the following areas:</b>		
<b>Animal Biology (minimum of one course):</b>		
BIOLOGY 304	Genetics Laboratory	
BIOLOGY 340	Comparative Anatomy of Vertebrates	
BIOLOGY 342	Ornithology	
BIOLOGY 343	Mammalogy	
BIOLOGY 345	Animal Behavior	
BIOLOGY 346	Comparative Physiology	
BIOLOGY 353	Invertebrate Biology	
BIOLOGY 355	Entomology	
BIOLOGY 410	Developmental Biology	
BIOLOGY 411	Developmental Biology Laboratory	
<b>Ecology and Conservation Biology (minimum of one course):</b>		
BIOLOGY 310	Plant Biodiversity	
BIOLOGY 320	Field Botany	
BIOLOGY 342	Ornithology	
BIOLOGY 343	Mammalogy	
BIOLOGY 353	Invertebrate Biology	
BIOLOGY 355	Entomology	
ENV SCI 467	Capstone in Environmental Science	

ENV SCI 469	Conservation Biology
ENV SCI 499	Travel Course
<b>Cell/Molecular Biology (minimum of one course):</b>	
BIOLOGY 302	Principles of Microbiology
BIOLOGY 304	Genetics Laboratory
BIOLOGY 307	Cell Biology
BIOLOGY 312	Mycology
BIOLOGY 402	Advanced Microbiology
BIOLOGY 407	Molecular Biology
BIOLOGY 408	Molecular Biology Laboratory
CHEM 330	Biochemistry
CHEM 331	Biochemistry Laboratory
HUM BIOL 422	Immunology
HUM BIOL 423	Immunology Lab
HUM BIOL 444	Endocrinology
<b>Seminar, 1 credit required</b>	
BIOLOGY 490	Biology Seminar

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Total Credits

55-62

<sup>1</sup> Satisfied with an ACT English score of 32 or higher