

Biology for Educators Emphasis

BIOLOGY Major

This disciplinary emphasis also requires:

- Completion of an interdisciplinary major or minor (<http://catalog.uwgb.edu/archive/2017-2018/undergraduate/planning/interdisciplinary-majors-minors>)

Code	Title	Credits
Supporting Courses		28-29
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	
Mathematics (choose one course):		
COMP SCI 256	Introduction to Software Design	
MATH 104	Elementary Functions: Algebra and Trigonometry	
MATH 201	Calculus for the Management and Social Sciences	
MATH 202	Calculus and Analytic Geometry I	
Writing (choose one course):		
ENG COMP 105	Expository Writing	
INFO SCI 390	Technical Writing	
Upper Level Courses		30-33
Required courses		
BIOLOGY 302 or BIOLOGY 307 & BIOLOGY 308	Principles of Microbiology Cell Biology and Cell Biology Laboratory	
BIOLOGY 303	Genetics	
BIOLOGY 309	Evolutionary Biology	
BIOLOGY 311 or BIOLOGY 346	Plant Physiology Comparative Physiology	
ENV SCI 302	Principles of Ecology	
Choose 12-14 credits of the following areas:		
Animal Biology (minimum of one course):		
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	
Ecology and Conservation Biology (minimum of one course):		
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
Cell/Molecular Biology (minimum of one course):	
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
Seminar, 1 credit required	
BIOLOGY 490	Biology Seminar

Total Credits

58-62