

# Cell/Molecular Emphasis

## BIOLOGY Major

Code	Title	Credits
<b>Supporting Courses</b>		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	
<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> <sup>1</sup>		
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 302	Principles of Microbiology	
BIOLOGY 303	Genetics	
BIOLOGY 307	Cell Biology	
BIOLOGY 308	Cell Biology Laboratory	
BIOLOGY 309	Evolutionary Biology	
BIOLOGY 311 or BIOLOGY 346	Plant Physiology Comparative Physiology	
BIOLOGY 407	Molecular Biology	
ENV SCI 302	Principles of Ecology	
<b>Minimum of 4 credits of the following courses:</b>		
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory	
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I	
<b>Choose a minimum of 5 credits from the following courses:</b>		
BIOLOGY 304	Genetics Laboratory	
BIOLOGY 312	Mycology	
BIOLOGY 322	Environmental Microbiology	
BIOLOGY 402	Advanced Microbiology	
BIOLOGY 408	Molecular Biology Laboratory	
BIOLOGY 410	Developmental Biology	
BIOLOGY 411	Developmental 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

58-62

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