

# Curriculum Guide: Biology Major with Emphasis in Cell/Molecular Biology

An example: Four year plan for **Biology Major with Emphasis in Cell/Molecular**

120 credits necessary to graduate. Assumes an 18-credit minor.

Plan is a representation and categories of classes can be switched. Check with your advisor.

Course	Title	Credits
<b>Freshman</b>		
<b>Fall</b>		
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	4
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	5
First Year Seminar		3
General Ed		3
	Credits	15
<b>Spring</b>		
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms, Ecology, and Evolution and Principles of Biology Lab: Organisms, Ecology, and Evolution	4
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	5
MATH 260	Introductory Statistics	4
General Ed / Core Minor		3
	Credits	16
<b>Sophomore</b>		
<b>Fall</b>		
BIOLOGY 302	Principles of Microbiology	4
ENG COMP 105	English Composition II: Composition and Rhetoric	3
MATH 202	Calculus and Analytic Geometry I	4
General Ed		3
Elective		3
	Credits	17
<b>Spring</b>		
BIOLOGY 303	Genetics	3
BIOLOGY 309	Evolutionary Biology	3
General Ed		3
General Ed		3
Elective		3
	Credits	15
<b>Junior</b>		
<b>Fall</b>		
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory	4
ENV SCI 302	Principles of Ecology	4
CHEM 302 & CHEM 304	Organic Chemistry I and Organic Chemistry Laboratory I (or Bio- Organic in Spring)	4

General Ed		3
	Credits	15
<b>Spring</b>		
BIOLOGY 346	Comparative Physiology	3
CHEM 330 & CHEM 301	Biochemistry and Bio-Organic Chemistry Laboratory (or Organic I in Fall)	4
Biology 407		
General Ed		3
Elective		3
Elective		3
	Credits	16
<b>Senior</b>		
<b>Fall</b>		
BIOLOGY 490	Biology Seminar (fall or spring)	1
Elective		3
General Ed		3
Biology Elective		3
Elective for Minor		3
Elective		3
	Credits	16
<b>Spring</b>		
BIOLOGY 490	Biology Seminar (fall or spring)	1
Biology Elective		3-4
Elective for Minor		3-4
Elective		3-4
Elective		3-4
	Credits	13-17
	Total Credits	123-127