

# CELLULAR BIOLOGY (BS DEGREE TRACK)

(72 credits)

Code	Title	Credits
<b>Core Requirements (23 Credits)</b>		
BIO201 & BIO211	General Biology I and Gen Bio 1 Lab <sup>1</sup>	4
BIO202 & BIO212	General Biology II and Gen Bio 2 Lab <sup>1</sup>	4
BIO320 & BIO321	Genetics and Genetics Lab <sup>2</sup>	4
BIO322	Evolution <sup>2</sup>	3
CHE201 & CHE211	General Chemistry I and General Chemistry I Lab <sup>3</sup>	4
CHE202 & CHE212	General Chemistry II and General Chemistry II Lab <sup>3</sup>	4
Participation in Lecture Series (6 hours)		0
<b>Required Concentration Courses (8 Credits)</b>		
BIO358	Molecular Biology	4
BIO359	Cell Biology	4
<b>Concentration Electives (17 Credits)</b>		
Select 17 credits of the following:		17
Architecture of Life (at least 7 credits):		
BIO311	Developmental Plant Anatomy	
BIO350	General Microbiology	
BIO388	Biological Chemistry	
BIO413	Developmental Biology	
BIO444	Nucleic Acid Technologies	
BIO448	Host-Microbe Coevolution	
BIO451	Capstone Microbiology	
BCM360	Protein Structure and Function	
BCM461	Biochemistry 1	
BCM463	Biochemistry Lab	
BCM470	Biochemistry 2	
Capstone: Select at least 6 credits, including at least 3 credits in 400-level (BIO4xx) Architecture of Life courses.		
<b>Cognate Requirements (24 Credits)</b>		
CHE318 & CHE306	Organic Chemistry I and Organic Chemistry I Lab	4
CHE319 & CHE309	Organic Chemistry II and Organic Chemistry II Lab	4
MAT251	Calculus I	4
MAT252	Calculus II	4
PHY201 & PHY211	General Physics 1 and Physics 1 Laboratory	4
PHY202 & PHY212	General Physics 2 and General Physics 2 Lab	4
<b>Total Credits</b>		<b>72</b>

minimum grade of C- is required in BIO201 General Biology I and BIO202 General Biology II .

<sup>2</sup> A minimum grade of C- in BIO320 Genetics is a prerequisite for several 300-level biology courses. In addition, most 400-level biology courses require a minimum grade of C- in both BIO320 Genetics and BIO322 Evolution.

<sup>3</sup> A minimum grade of C- is required to advance from CHE201 General Chemistry I to CHE202 General Chemistry II and from CHE202 General Chemistry II to CHE318 Organic Chemistry I .

**Additional considerations for admission to graduate programs in biology: Research experience.** You should begin to explore research options during your sophomore year.

**Additional considerations for admission to medical, dental and veterinary schools:** The requirements for these professional schools are constantly evolving and vary from institution to institution. Please contact the [Health Career Advisor](#).

<sup>1</sup> BIO201 General Biology I /BIO211 Gen Bio 1 Lab and BIO202 General Biology II /BIO212 Gen Bio 2 Lab must be taken in sequence. A