

Bachelor of Science 2024-25**Biology Major****Major Codes BI04****CIP Code: 260101**

Cr Hrs

General Education CORE 42 Requirements 42*		32
Area 1A	Social & Behavioral Sciences	6
Area 1B	Civics Engagement	3
Area 2A	Written Communication	6
Area 2B	Oral Communication	3
Area 3A	Natural Science Non-Lab (BIO 110 or CHEM 151)	
Area 3B	Natural science With Lab (PHYS 160 or BIO 110 or CHEM 151)	
Area 4	Mathematics (MATH 130 or 150)	
Area 5A	Humanities	6
Area 5B	Fine Arts	3
Area 5C	Global Competencies	3
Area 5D	Health and Wellness	2
UE 100	University Experience**	1
Biology Requirements		43
BIO 110	Principles of Biology I	4
BIO 111	Principles of Biology II	4
BIO 210	Molecular Cell Biology	4
BIO 231	General and Medical Microbiology	5
BIO 305	Genetics	4
BIO 389	Fundamentals of Experimental Design & Statistics(3)	3
OR		
BIO 390	Research and Statistical Methods (3)	
BIO 400	Biology Capstone	1
BIO 402	General Ecology	4
	OR	
BIO 481	Aquatic Ecology (4)	
BIO	Electives see below for options (200 level or above)	14
Supporting Requirements		21-24
MATH 130	College Algebra (3)	3-5
OR		
MATH 150 (5)	Calculus with Analytic Geometry I	
CHEM 151	General Chemistry I	5
CHEM 152	General Chemistry II	5
CHEM 201	Analytical Chemistry (5)	5
OR		
CHEM 301	Organic Chemistry I (5)	
PHYS 150	Environmental Physics (3)	3-4
OR		
PHYS 160	Elementary College Physics I With Lab (4)	
Electives		20-23
Total Hours	Must include at 39 upper division (300-400) hrs	120

*Required courses in Biology, Chemistry/Physics and Math satisfy Gen Ed Core 42 Areas 3A,3B,4 (10 hours)

It is recommended that General Biology students take at least two electives from the Biomedical Group and the EEC group.

Biomedical electives: BIO 201, BIO 240, BIO 301, BIO 308, BIO 350, BIO 361, BIO 362, BIO 370, BIO 371, BIO 380, BIO 433, BIO 442, BIO 456, BIO 464, BIO 475

Ecology, Evolution and Conservation electives: BIO 304, BIO 312, BIO 316, BIO 332, BIO 350, BIO 404, BIO 406, BIO 412, BIO 415, BIO 440

Other electives: BIO 294/497*, BIO 298/498, BIO 299/499*, BIO 455*, BIO 491*, BIO 492*

* Combined hours from BIO 297/497, BIO 299/499, BIO 455, BIO 491 and BIO 492 may not exceed 4 hours toward the B.S. in Biology degree