

**Bachelor of Science 2024-25****Biology Major Ecol Marine Cons****Major Codes BI02****CIP Code: 260101**

Cr Hrs

<b>General Education CORE 42 Requirements 42*</b>		<b>32</b>
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)	
Area 5A	Humanities	6
Area 5B	Fine Arts	3
Area 5C	Global Competencies	3
Area 5D	Health and Wellness	2
<b>UE 100</b>	<b>University Experience**</b>	<b>1</b>
<b>Biology Requirements</b>		<b>51-52</b>
BIO 110	Principles of Biology I	4
BIO 111	Principles of Biology II	4
BIO 210	Molecular Cell Biology (4)	4-5
OR		
BIO 231	General and Medical Microbiology (5)	
BIO 300	Evolution	3
BIO 302	Conservation Biology	3
BIO 304	Intro to Geographic Information Systems (GIS)	3
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 Pick 2 field-based elective courses (1 animal-based & 1 plant-based)		8
BIO 322	Taxonomy of Flowering Plants (4)	
BIO 332	Introduction to Entomology (4)	
BIO 361	Parasitology (4)	
BIO 412	Mammalogy (4)	
BIO 415	Herpetology (4)	
<b>BIO</b>	<b>Electives</b> see below for options (200 level or above)	<b>14</b>
<b>Supporting Requirements</b>		<b>18</b>
MATH 130	College Algebra	3
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)	
<b>Electives</b>		<b>17-18</b>
<b>Total Hours</b>	Must include at 39 upper division (300-400) hrs	<b>120</b>

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

Recommended electives: BIO 210 or BIO 231 (if not taken for required core), BIO 305, BIO 312, BIO 316, BIO 350, BIO 362, BIO 370, BIO 371, BIO 380, BIO 404, BIO 406, BIO 440, BIO 442, 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