

**Bachelor of Science 2023-24****Biology Major Biotech Micro Gen****Major Codes BI01****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 108 or CHEM 140)	
Area 3B	Natural science With Lab (PHYS 160 or BIO 108/109 or CHEM 140/141)	
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
<b>UE 100</b>	<b>University Experience**</b>	<b>1</b>
<b>Biology Requirements</b>		<b>43</b>
BIO 108	Principles of Biology I	3
BIO 109	Principles of Biology I Lab	1
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)	
<b>BIO</b>	<b>Electives</b> see below for options (200 level or above)	14
<b>Supporting Requirements</b>		<b>21-24</b>
MATH 130	College Algebra (3)	3-5
OR		
MATH 150 (5)	Calculus with Analytic Geometry I	
CHEM 140	General Chemistry I	3
CHEM 141	General Chemistry I Lab	2
CHEM 142	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)	
<b>Electives</b>		<b>20-23</b>
<b>Total Hours</b>	Must include at 39 upper division (300-400) hrs	<b>120</b>

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

Recommended electives: BIO 240, BIO 201, BIO 301, BIO 308, BIO 350, BIO 361, BIO 370, BIO 371, BIO 380, BIO 375, BIO 442, BIO 460, BIO 464, 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