

**B.S. BIOLOGY DEGREE REQUIREMENTS (2021-2022)**  
**Emphasis in Biomedical Sciences and Biotechnology**

Student Name: \_\_\_\_\_

Mentor: \_\_\_\_\_

**GENERAL EDUCATION CORE REQUIREMENTS**

Course	Credit Hrs.	Term Taken	Grade
<b>First Year Experience</b> FYE 101 .....	1	_____	_____
FYE 102 or approved substitute .....	1	_____	_____
<b>English</b> ENG 101/101E.....	3	_____	_____
ENG 102/103 .....	3	_____	_____
<b>Literature</b> ENG <u>201, 202, 203, 204, 205, or 206</u> .....	3	_____	_____
<b>History</b> HIS <u>111, 112, 201 or 202</u> .....	3	_____	_____
<b>Religion/Philosophy</b>			
REL 241 .....	3	_____	_____
<b>Fine Arts</b> (3 hours selected from ART 121, ART 131, ART 143, ART 211, ART 251, MUS 231, MUS 233, MUS 235, MUS 236, or ENG/DRA 131)			
_____ .....	3	_____	_____
<b>Additional Humanities</b> (Choose an additional course from the Literature, History, Religion/Philosophy, or Fine Arts choices)			
_____ .....	3	_____	_____
<b>Math</b> MAT <u>141 or 142</u> .....	5	_____	_____
<b>Natural Science</b>			
CHE 111 .....	4	_____	_____
CHE 112 .....	4	_____	_____
<b>Speech</b> ENG/COMM 221 .....	3	_____	_____
<b>Physical Education</b> (any activity course)			
HPPE _____ .....	1	_____	_____
<b>Social Sciences</b> (3 hours selected from PSY 113, SOC 211, BUS 201 BUS 202, or HIS 221)			
_____ .....	3	_____	_____
<b><u>For B.S. Degree – Computer Literacy</u></b>			
<u>MIS 110, 220, or CS 110</u> .....	3	_____	_____

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Courses	Credit Hrs.	Term Taken	Grade
<b>Required Chemistry Courses</b> .....	<b>8</b>		
CHE 211 Organic Chemistry I.....	4	_____	_____
CHE 212 Organic Chemistry II.....	4	_____	_____
<b>Required Biology Courses</b> .....	<b>14</b>		
BIO 111/115 General Biology I.....	4	_____	_____
BIO 112/116 General Biology II.....	4	_____	_____
BIO 301 Genetics.....	4	_____	_____
BIO 310 Biology Seminar.....	2	_____	_____
<b>Biomedical Sciences and Biotechnology Emphasis</b> .....	<b>20</b>		
BIO 331 Cell Biology.....	4	_____	_____
BIO 361 Biology of Microorganisms.....	4	_____	_____
CHE 411 Biochemistry.....	3	_____	_____
CHE 412 Biochemistry II.....	3	_____	_____
CHE 413 Biochemistry Methods.....	3	_____	_____
<b>Choose one from following:</b>			
BIO 444 Independent Research.....	3	_____	_____
BIO 498 Biology Internship.....	3	_____	_____
<b>Biology Electives (choose from following)</b> .....	<b>9</b>		
BIO 201 Human Anatomy and Physiology I.....	4	_____	_____
BIO 202 Human Anatomy and Physiology II.....	4	_____	_____
BIO 261 Microbiology for the Health Sciences.....	4	_____	_____
BIO 312 Topics in Biology.....	3	_____	_____
BIO 313 Topics in Biology Lab.....	1	_____	_____
BIO 317 Marine Biology.....	4	_____	_____
BIO 318 Conservation Biology.....	3	_____	_____
BIO 341 Ecology.....	4	_____	_____
BIO 350 Botanical Diversity.....	4	_____	_____
BIO 399 Bioethics.....	3	_____	_____
BIO 411 Immunology.....	3	_____	_____
BIO 426 Vertebrate Development.....	4	_____	_____
BIO 440 Invertebrate Zoology.....	4	_____	_____
BIO 441 Vertebrate Zoology.....	4	_____	_____
BIO 442 General Ichthyology.....	4	_____	_____
BIO 444 Independent Research.....	1-6	_____	_____
BIO 498 Biology Internship.....	1-6	_____	_____
PSY 424 Neuropsychology.....	3	_____	_____
<b>Elective Courses*</b> .....	<b>23*</b>		
_____.....	_____	_____	_____
_____.....	_____	_____	_____
_____.....	_____	_____	_____
_____.....	_____	_____	_____
_____.....	_____	_____	_____
_____.....	_____	_____	_____
_____.....	_____	_____	_____
_____.....	_____	_____	_____
_____.....	_____	_____	_____
<b>Total Hours Required for Degree</b> .....	<b>120*</b>		

\*At least 42 hours must be upper-level (300 or 400)