

**Departmental/Program Major Courses (51-53 credits)** \*A 2.0 average is required in these courses

**\*Required Major Courses (33 credits)**

- \_\_\_\_\_ (2) BIOL 12100 Biology I: Diversity, Ecology and Behavior *(satisfies Science, Technology & Society Selective for core)*
- \_\_\_\_\_ (3) BIOL 13100 Biology II: Development, Structure, and Function of Organisms
- \_\_\_\_\_ (2) BIOL 13500 First Year Biology Lab or BIOL 14501 First Yr Lab Neuro Res Project or IT 22600 Biotechnology Lab I
- \_\_\_\_\_ (3) BIOL 23100 Biology III: Cell Structure & Function
- \_\_\_\_\_ (2) BIOL 23200 Lab in Cell Structure & Function
- \_\_\_\_\_ (3) BIOL 24100 Biology IV: Genetics & Molecular Biology
- \_\_\_\_\_ (2) BIOL 24200 Lab in Genetics & Molecular Biology
- \_\_\_\_\_ (2) BIOL 28600 Intro to Ecology & Evolution
- \_\_\_\_\_ (3) BIOL 41600 Viruses & Viral Diseases
- \_\_\_\_\_ (3) BIOL 43800 General Microbiology
- \_\_\_\_\_ (2) BIOL 43900 Lab in General Microbiology
- \_\_\_\_\_ (3) BIOL 52900 Bacterial Physiology

**\*Major Selectives - Select one course for each requirement (3 credits)**

- \_\_\_\_\_ (3) Microbiology Selective I (Req # 13)
- \_\_\_\_\_ (3) Microbiology Selective II (Req # 15)

**Other Departmental /Program Course Requirements (64-76 credits)**

- \_\_\_\_\_ (5) CHM 12901 General Chemistry
- \_\_\_\_\_ (4) Organic CHM 1 Selective
- \_\_\_\_\_ (4) Organic CHM 2 Selective
- \_\_\_\_\_ (4) CHM 33900-33901
- \_\_\_\_\_ (4) PHYS 1 Selective - Select from PHYS 23300 or 17200 *(satisfies Science Selective for core)*
- \_\_\_\_\_ (4) PHYS 2 Selective - Select from PHYS 23400 or 27200
- \_\_\_\_\_ (3-5) Calculus 1 Selective - Select from MA 16010, 16100, or 16500 *(satisfies Quantitative Reasoning Selective for core)*
- \_\_\_\_\_ (3-5) Calculus 2 Selective- Select from MA 16020, 16200, 16600 or 17300
- \_\_\_\_\_ (3) STAT 50300
- \_\_\_\_\_ (3-4) Computer Science Selective
- \_\_\_\_\_ (3-4) ENGL 10600 or 10800 *(satisfies Written Communication for core); (satisfies Information Literacy Selective for core)*
- \_\_\_\_\_ (3) Language & Culture 1 Selective
- \_\_\_\_\_ (3) Language & Culture 2 Selective
- \_\_\_\_\_ (3) Language & Culture 3 Selective
- \_\_\_\_\_ (3) COM 21700 *(satisfies Oral Communication for core)*
- \_\_\_\_\_ (3) General Education 1 Selective \_ *(satisfies Human Culture Behavioral/Social Science for core)*
- \_\_\_\_\_ (3) General Education 2 Selective \_\_ *(satisfies Human Cultures Humanities for core)*
- \_\_\_\_\_ (3) General Education 3 Selective
- \_\_\_\_\_ (0-3) Teambuilding & Collaboration Selective
- \_\_\_\_\_ (3) Great Issues Selective
- \_\_\_\_\_ (1-3) Multidisciplinary Selective

**Electives (5-17 credits)**

- \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_
- \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_
- \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

**University Core Requirements**

<i>Human Cultures Humanities</i>	<input type="checkbox"/>	_____	<i>Science, Technology &amp; Society Selective</i>	<input type="checkbox"/>	_____
<i>Human Cultures Behavioral/Social Science</i>	<input type="checkbox"/>	_____	<i>Written Communication</i>	<input type="checkbox"/>	_____
<i>Information Literacy</i>	<input type="checkbox"/>	_____	<i>Oral Communication</i>	<input type="checkbox"/>	_____
<i>Science Selective</i>	<input type="checkbox"/>	_____	<i>Quantitative Reasoning</i>	<input type="checkbox"/>	_____
<i>Science Selective</i>	<input type="checkbox"/>	_____			

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**The student is ultimately responsible for knowing and completing all degree requirements.**  
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# Microbiology

## Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
2	BIOL 12100		3	BIOL 13100	
2	BIOL 13500	CHM 12901 coreq	4	Organic Chem 1 Selective	CHM 11600 or 12901
5	CHM 12901	ALEKS score of 85	3-5	Calculus II Selective	Calc I
3-5	Calculus I Selective		3	Language/Culture 2 Selective	Lang 10100
3	Language/Culture 1 Selective		3-4	ENGL 10600 or 10800	
1	BIOL 11500				
<b>16-18</b>			<b>16-19</b>		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
3	BIOL 23100	CHM 12901 prereq; BIOL 13100	3	BIOL 24100	BIOL 23100
2	BIOL 23200		2	BIOL 24200	
4	Organic Chem 2 Selective	Organic I	4	CHM 33900-33901	Organic II
3	Language/Culture 3 Selective	varies	2	BIOL 28600	BIOL 12100
3	COM 21700		1	BIOL 29300	
			3	General Education 1 Selective	
<b>15</b>			<b>14-15</b>		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
3	BIOL 43800	varies	3	BIOL 41600	
2	BIOL 43900		3	BIOL 52900	
4	PHYS 1 Selective		4	PHYS 2 Selective	
3	General Education 2 Selective		1	BIOL 39300	
3	Elective		3	General Education 3 Selective	
<b>15</b>			<b>14</b>		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
3	Microbiology Selective I		3	Microbiology Selective II (Req # 15)	varies
3-4	Computer Science Selective		3	STAT 50300	
1-3	Multidisciplinary Selective		3	Great Issues Selective	
4	Elective		3	Elective	
3	Elective		3	Elective	
<b>14-17</b>			<b>15</b>		

**120 semester credits required for Bachelor of Science degree.  
2.0 Graduation GPA required for Bachelor of Science degree.**

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