

# Bachelor of Science in Biochemistry 2016-2018 Catalog

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

ID#: \_\_\_\_\_

Advisor: \_\_\_\_\_

DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_



Credit Hour Breakdown	
Hours completed	
Hours in progress	
Core hours needed	
Major hours needed	
(Minor hours needed)	
(Other hours needed)	
Elective hours needed	
<b>TOTAL HOURS (126+)</b>	

### Overall Requirements to Graduate

- 126+ semester hours
- Completion of core curriculum
- Completion of a major
- 36 upper division credit hours
- GPA above 2.0
- Major GPA above 2.0
- Minor/Program complete (optional)

Core Curriculum (46 hours)			Complete	Needed		
<b>Theology (9 credit hours)</b> Must take in order. (Pre-req: Phil 1311 or 1315/3315) <ul style="list-style-type: none"> <li><input type="checkbox"/> THEO 1301/3301 Intro to Sacred Scriptures</li> <li><input type="checkbox"/> THEO 2301/3311 Teachings of the Catholic Church</li> <li><input type="checkbox"/> THEO 3349 Christ and the Moral Life (Phil 2314 or 2316/3316)</li> </ul>		<b>Students with 30-59 transfer hrs:</b> 6-9 hours THEO 6-9 hours PHIL 3 hours Synthesis <i>(18 hours total)</i>	<b>Students with 60+ transfer hrs:</b> 6 hours THEO 6 hours PHIL NO synthesis <i>(12 hours total)</i>			
<b>Philosophy (9 credit hours)</b> Choose one sequence: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;"> <u>Systematic Sequence (must take in order)</u> <ul style="list-style-type: none"> <li><input type="checkbox"/> PHIL 1311 Philosophy of the Human Person</li> <li><input type="checkbox"/> PHIL 2314 Ethics</li> <li><input type="checkbox"/> PHIL 3313 Metaphysics</li> </ul> </td> <td style="width: 50%; padding: 2px;"> <u>Historical Sequence (must take in order)</u> <ul style="list-style-type: none"> <li><input type="checkbox"/> PHIL 1315/3315 Ancient Philosophy</li> <li><input type="checkbox"/> PHIL 2316/3316 Medieval Philosophy</li> <li><input type="checkbox"/> PHIL 3317 – Modern Philosophy</li> </ul> </td> </tr> </table>		<u>Systematic Sequence (must take in order)</u> <ul style="list-style-type: none"> <li><input type="checkbox"/> PHIL 1311 Philosophy of the Human Person</li> <li><input type="checkbox"/> PHIL 2314 Ethics</li> <li><input type="checkbox"/> PHIL 3313 Metaphysics</li> </ul>	<u>Historical Sequence (must take in order)</u> <ul style="list-style-type: none"> <li><input type="checkbox"/> PHIL 1315/3315 Ancient Philosophy</li> <li><input type="checkbox"/> PHIL 2316/3316 Medieval Philosophy</li> <li><input type="checkbox"/> PHIL 3317 – Modern Philosophy</li> </ul>			
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<b>Synthesis Course (3 credit Hours)</b> Choose <b>one</b> synthesis course from the Synthesis Course List.						
<b>English (9 credit hours)*</b> Must take in order. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;"> <ul style="list-style-type: none"> <li><input type="checkbox"/> ENGL 1341 The Classical Tradition: Literature &amp; Composition I</li> <li><input type="checkbox"/> ENGL 1342 The Middle Ages: Literature &amp; Composition II</li> <li><input type="checkbox"/> ENGL 2312 The Modern World: Literature &amp; Composition III</li> </ul> </td> <td style="width: 50%; padding: 2px;"> <b>*Students with transfer credit:</b>            3 transfer credits: <i>Take 1341/1342 (left)</i>            6 transfer credits: <i>Take ENGL 3312 (below)</i>  <input type="checkbox"/> ENGL 3312 <i>Perspectives in World Lit.</i> </td> </tr> </table>			<ul style="list-style-type: none"> <li><input type="checkbox"/> ENGL 1341 The Classical Tradition: Literature &amp; Composition I</li> <li><input type="checkbox"/> ENGL 1342 The Middle Ages: Literature &amp; Composition II</li> <li><input type="checkbox"/> ENGL 2312 The Modern World: Literature &amp; Composition III</li> </ul>	<b>*Students with transfer credit:</b> 3 transfer credits: <i>Take 1341/1342 (left)</i> 6 transfer credits: <i>Take ENGL 3312 (below)</i> <input type="checkbox"/> ENGL 3312 <i>Perspectives in World Lit.</i>		
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<b>History (6 credit hours)</b> Choose <b>one</b> pair of courses: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;"> <u>World History</u> <ul style="list-style-type: none"> <li><input type="checkbox"/> HIST 1335 World Community I</li> <li><input type="checkbox"/> HIST 1336 World Community II</li> </ul> </td> <td style="width: 50%; padding: 2px;"> <u>U.S. History</u> <ul style="list-style-type: none"> <li><input type="checkbox"/> HIST 2333 U.S. History to 1877</li> <li><input type="checkbox"/> HIST 2334 U.S. History since 1877</li> </ul> </td> </tr> </table>			<u>World History</u> <ul style="list-style-type: none"> <li><input type="checkbox"/> HIST 1335 World Community I</li> <li><input type="checkbox"/> HIST 1336 World Community II</li> </ul>	<u>U.S. History</u> <ul style="list-style-type: none"> <li><input type="checkbox"/> HIST 2333 U.S. History to 1877</li> <li><input type="checkbox"/> HIST 2334 U.S. History since 1877</li> </ul>		
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<b>Social and Behavioral Sciences (6 credit hours)</b> Choose <b>one</b> option: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;"> <u>Social and Behavioral Sciences Option</u> <ul style="list-style-type: none"> <li><input type="checkbox"/> Choose <b>two</b> courses from the Social and Behavioral Sciences Core course list.</li> </ul> </td> <td style="width: 50%; padding: 2px;"> <u>Social and Behavioral Sciences + Oral Communication Option</u> <ul style="list-style-type: none"> <li><input type="checkbox"/> Choose <b>one</b> course from the Social &amp; Behavioral Sciences Core course list.</li> <li><input type="checkbox"/> Choose <b>one</b> course from the Communication Core Course list.</li> </ul> </td> </tr> </table>			<u>Social and Behavioral Sciences Option</u> <ul style="list-style-type: none"> <li><input type="checkbox"/> Choose <b>two</b> courses from the Social and Behavioral Sciences Core course list.</li> </ul>	<u>Social and Behavioral Sciences + Oral Communication Option</u> <ul style="list-style-type: none"> <li><input type="checkbox"/> Choose <b>one</b> course from the Social &amp; Behavioral Sciences Core course list.</li> <li><input type="checkbox"/> Choose <b>one</b> course from the Communication Core Course list.</li> </ul>		
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<b>Natural Sciences (8-10 credit hours)</b> Choose <b>one</b> option: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;"> <u>Natural Sciences Option (8 credit hours)</u> <ul style="list-style-type: none"> <li><input type="checkbox"/> Choose <b>two</b> lecture/laboratory courses from the Natural Sciences Core course list.</li> </ul> </td> <td style="width: 50%; padding: 2px;"> <u>Natural Sciences + Modern and Classical Language Option (10 credit hours)</u> <ul style="list-style-type: none"> <li><input type="checkbox"/> Choose <b>one</b> lecture/laboratory course from the Natural Sciences Core course list.</li> <li><input type="checkbox"/> Choose <b>two</b> sequential courses in a language. Courses must be completed in order</li> </ul> </td> </tr> </table>			<u>Natural Sciences Option (8 credit hours)</u> <ul style="list-style-type: none"> <li><input type="checkbox"/> Choose <b>two</b> lecture/laboratory courses from the Natural Sciences Core course list.</li> </ul>	<u>Natural Sciences + Modern and Classical Language Option (10 credit hours)</u> <ul style="list-style-type: none"> <li><input type="checkbox"/> Choose <b>one</b> lecture/laboratory course from the Natural Sciences Core course list.</li> <li><input type="checkbox"/> Choose <b>two</b> sequential courses in a language. Courses must be completed in order</li> </ul>		(Included in major)
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<b>Mathematics (3 credit hours)</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Choose <b>one</b> course from the Mathematics Core Course list.</li> </ul>				(Included in major)		
<b>Fine Arts (3 credit hours)</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Choose <b>one</b> course from the Fine Arts Core Course list.</li> </ul>						
<b>Freshman Symposium (1 credit hour)</b> Required for all incoming freshmen. <ul style="list-style-type: none"> <li><input type="checkbox"/> UNIV 1111 Freshman Symposium</li> </ul>						

# Bachelor of Science in Biochemistry 2016-2018 Catalog

Major Requirements (77-78 credit hours)		Completed	Needed
<b>Chemistry Foundation Courses (44 credit hours)</b>			
<input type="checkbox"/> CHEM 1341/1141 – General Chemistry I and laboratory <input type="checkbox"/> CHEM 1342/1142 – General Chemistry II and laboratory (CHEM 1341/1141) <input type="checkbox"/> CHEM 2343/2143 – Organic Chemistry I and laboratory (CHEM 1342/1142) <input type="checkbox"/> CHEM 3333/3133 – Organic Chemistry II and laboratory (CHEM 2343/2143) <input type="checkbox"/> CHEM 3334/3134 – Biochemistry and laboratory (junior standing; CHEM 2343/2143) <input type="checkbox"/> CHEM 3343/3143 – Analytical Chemistry and laboratory (CHEM 1342/1142) <input type="checkbox"/> CHEM 4331/4131 – Advanced Organic Chemistry and laboratory (CHEM 3333/3133) <input type="checkbox"/> CHEM 4332/4132 – Inorganic Chemistry and laboratory (CHEM 3333/3133) <input type="checkbox"/> CHEM 4362/4162 – Thermodynamics and Kinetics and laboratory (CHEM 1342/1142; MATH 1431/1432/2343; PHYS 1331/1332 or PHYS 2333/2334) <input type="checkbox"/> CHEM 4112 – Scientific Communication (junior or senior standing) <input type="checkbox"/> CHEM 4150 – Laboratory Research Methods <input type="checkbox"/> CHEM 4344 – Advanced Analytical Techniques (CHEM 3343/3143) <input type="checkbox"/> CHEM 4334 – Advanced Biochemistry (CHEM/BIO 3334)			
<b>Biology (17-18 credit hours) Must take in order.</b>			
<input type="checkbox"/> BIOL 1351/1151 – Introduction to Population Biology and Evolution w/ lab <input type="checkbox"/> BIOL 1352/1152 – Introduction to Cell and Molecular Biology w/ lab <input type="checkbox"/> BIOL 3321 – Genetics (CHEM 1341/1141/1342/1142) <input type="checkbox"/> BIOL 3351 – Molecular Biology (CHEM 2343) <input type="checkbox"/> BIOL 3000/4000 – Any upper division biology course			
<b>Mathematics (8 credit hours) Must take in order.</b>			
<input type="checkbox"/> MATH 1431 – Calculus I <input type="checkbox"/> MATH 1432 – Calculus II			
<b>Physics (8 credit hours) Choose one pair of courses.</b>			
<input type="checkbox"/> PHYS 1331/1111 – General Physics I w/ lab <input type="checkbox"/> PHYS 1332/1112 – General Physics II w/ lab	<input type="checkbox"/> PHYS 2333/2111 – University Physics I w/ lab <input type="checkbox"/> PHYS 2334/2112 – University Physics II w/lab		

Electives		Completed	Needed
<b>Electives to reach the 126 hour minimum to graduate (2-3 hours)</b>			

Totals		Completed	Needed
<b>Total undergraduate hours (126 minimum):</b>			

MINIMUM TOTAL: 126+