

Bachelor of Arts in Biology

2021-2022 Catalog

Student: _____

ID#: _____

Advisor: _____

DATE: ____/____/____



UNIVERSITY OF
ST. THOMAS

Overall Requirements to Graduate

- 120+ 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)

Credit Hour Breakdown	
Hours completed	
Hours in progress	
Core hours needed	
Major hours needed	
(Minor hours needed)	
(Other hours needed)	
Elective hours needed	
TOTAL HOURS (120+)	

Core Curriculum (46 hours)			Complete	Needed
Theology (9 credit hours) Must take in order. (Pre-req: Phil 1311 or 1315/3315)				
<input type="checkbox"/> THEO 1301/3301 Intro to Sacred Scriptures <input type="checkbox"/> THEO 2301/3311 Teachings of the Catholic Church <input type="checkbox"/> THEO 3349 Christ and the Moral Life (Phil 2314 or 2316/3316)	Students with 30-59 transfer hrs: 6-9 hours THEO 6-9 hours PHIL 3 hours Synthesis <i>(18 hours total)</i>	Students with 60+ transfer hrs: 6 hours THEO 6 hours PHIL NO synthesis <i>(12 hours total)</i>		
Philosophy (9 credit hours) Choose one sequence:				
<u>Systematic Sequence (must take in order)</u> <input type="checkbox"/> PHIL 1311 Philosophy of the Human Person <input type="checkbox"/> PHIL 2314 Ethics <input type="checkbox"/> PHIL 3313 Metaphysics	<u>Historical Sequence (must take in order)</u> <input type="checkbox"/> PHIL 1315/3315 Ancient Philosophy <input type="checkbox"/> PHIL 2316/3316 Medieval Philosophy <input type="checkbox"/> PHIL 3317 – Modern Philosophy			
Synthesis Course (3 credit Hours)				
Choose one synthesis course from the Synthesis Course List.				
English (9 credit hours)* Must take in order.				
<input type="checkbox"/> ENGL 1341 The Classical Tradition: Literature & Composition I <input type="checkbox"/> ENGL 1342 The Middle Ages: Literature & Composition II <input type="checkbox"/> ENGL 2312 The Modern World: Literature & Composition III		*Students with transfer credit: 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>		
History (6 credit hours) Choose one pair of courses:				
<u>World History</u> <input type="checkbox"/> HIST 1335 World Community I <input type="checkbox"/> HIST 1336 World Community II	<u>U.S. History</u> <input type="checkbox"/> HIST 2333 U.S. History to 1877 <input type="checkbox"/> HIST 2334 U.S. History since 1877			
Social and Behavioral Sciences (6 credit hours) Choose one option:				
<u>Social and Behavioral Sciences Option</u> <input type="checkbox"/> Choose two courses from the Social and Behavioral Sciences Core course list.	<u>Social and Behavioral Sciences + Oral Communication Option</u> <input type="checkbox"/> Choose one course from the Social & Behavioral Sciences Core course list. <input type="checkbox"/> Choose one course from the Communication Core Course list.			
Natural Sciences (8-10 credit hours) Choose one option:				
<u>Natural Sciences Option (8 credit hours)</u> <input type="checkbox"/> Choose two lecture/laboratory courses from the Natural Sciences Core course list.	<u>Natural Sciences + Modern and Classical Language Option (10 credit hours)</u> <input type="checkbox"/> Choose one lecture/laboratory course from the Natural Sciences Core course list. <input type="checkbox"/> Choose two sequential courses in a language. Courses must be completed in order		(Included in major)	
Mathematics (3 credit hours)				
<input type="checkbox"/> Choose one course from the Mathematics Core Course list.			(Included in major)	
Fine Arts (3 credit hours)				
<input type="checkbox"/> Choose one course from the Fine Arts Core Course list.				
Freshman Symposium (1 credit hour) Required for all incoming freshmen.				
<input type="checkbox"/> UNIV 1111 Freshman Symposium				

Last updated on November 3, 2021

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Major Requirements (55 credit hours)	Complete	Needed		
Biology (20 credit hours)				
<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 (BIOL 1351/1151/1352/1152, CHEM 1341/1141/1342/1142) <input type="checkbox"/> BIOL 3331 – Ecology* or BIOL 3341 Marine Biology* (the course used for this requirement cannot also count in the section below, but the other choice may be taken and used below) <input type="checkbox"/> BIOL/CHEM 3334 – Biochemistry (CHEM 2343/2143) <input type="checkbox"/> BIOL 4332 – Evolution (Capstone) (BIOL 3321, senior standing)				
Additional Upper Division Biology Courses (15 credit hours) Choose four lecture courses and 3 lab courses. For 3 HR courses with 1 HR lab it is recommended to take them together. 4 HR courses include the lecture and the lab. *Courses marked with an asterisk require completion of BIOL 3321 Genetics)				
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top; padding: 5px;"> 3 HR Lecture Courses: <input type="checkbox"/> BIOL 3345 Physiology (BIOL 1352/1152, CHEM 1342/1142) <input type="checkbox"/> BIOL 3333 Microbiology* <input type="checkbox"/> BIOL 3339 Neuroscience* <input type="checkbox"/> BIOL 3331 Ecology* <input type="checkbox"/> BIOL 3341 Marine Biology* <input type="checkbox"/> BIOL 3351 Molecular Biology* <input type="checkbox"/> BIOL 3362 Cancer Biology* <input type="checkbox"/> BIOL 4321 Nucleic Acids* <input type="checkbox"/> BIOL 4336 Cells, Genes & Molecules (BIOL 3334, 3351) <input type="checkbox"/> BIOL 4354 Pathogenic Microbiology* 4 HR Lecture Courses: <input type="checkbox"/> BIOL 3448 Comparative Anatomy & Lab* <input type="checkbox"/> BIOL 3461/3061 Cell Biology & Lab* <input type="checkbox"/> BIOL 4449 Immunology & Lab* </td> <td style="width: 50%; vertical-align: top; padding: 5px;"> 1 HR Lab Courses: <input type="checkbox"/> BIOL 3121 Genetics & Molecular Lab (BIOL 3321) <input type="checkbox"/> BIOL 3133 Microbiology Lab* <input type="checkbox"/> BIOL/CHEM 3134 Biochemistry Lab (CHEM 2343/2143) <input type="checkbox"/> BIOL 3151 Advanced Molecular Biology Lab*(BIOL 3334) <input type="checkbox"/> BIOL 4154 Pathogenic Microbiology Lab* </td> </tr> </table>	3 HR Lecture Courses: <input type="checkbox"/> BIOL 3345 Physiology (BIOL 1352/1152, CHEM 1342/1142) <input type="checkbox"/> BIOL 3333 Microbiology* <input type="checkbox"/> BIOL 3339 Neuroscience* <input type="checkbox"/> BIOL 3331 Ecology* <input type="checkbox"/> BIOL 3341 Marine Biology* <input type="checkbox"/> BIOL 3351 Molecular Biology* <input type="checkbox"/> BIOL 3362 Cancer Biology* <input type="checkbox"/> BIOL 4321 Nucleic Acids* <input type="checkbox"/> BIOL 4336 Cells, Genes & Molecules (BIOL 3334, 3351) <input type="checkbox"/> BIOL 4354 Pathogenic Microbiology* 4 HR Lecture Courses: <input type="checkbox"/> BIOL 3448 Comparative Anatomy & Lab* <input type="checkbox"/> BIOL 3461/3061 Cell Biology & Lab* <input type="checkbox"/> BIOL 4449 Immunology & Lab*	1 HR Lab Courses: <input type="checkbox"/> BIOL 3121 Genetics & Molecular Lab (BIOL 3321) <input type="checkbox"/> BIOL 3133 Microbiology Lab* <input type="checkbox"/> BIOL/CHEM 3134 Biochemistry Lab (CHEM 2343/2143) <input type="checkbox"/> BIOL 3151 Advanced Molecular Biology Lab*(BIOL 3334) <input type="checkbox"/> BIOL 4154 Pathogenic Microbiology Lab*		
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Chemistry (12 credit hours) Must take in order:				
<input type="checkbox"/> CHEM 1341/1141 General Chemistry I and laboratory <input type="checkbox"/> CHEM 1342/1142 General Chemistry II and laboratory <input type="checkbox"/> CHEM 2343/2143 Organic Chemistry I and laboratory (CHEM 1342/1142)				
Physics (4 credit hours) Choose one of the following.				
<input type="checkbox"/> PHYS 1331/1111 General Physics I w/ lab <input type="checkbox"/> PHYS 2333/2111 University Physics I w/ lab (MATH 1431)				
Mathematics (4 credit hours) Choose one from the following.				
<input type="checkbox"/> MATH 1431 Calculus I (MATH 1331 with a C or better) <input type="checkbox"/> MATH 3450/1050 Biostatistics I (6 credit hours math or science)				

Electives	Completed	Needed
Electives to reach the 120 hour minimum to graduate (19 hours)		
<i>This major contains 17-29 upper-division (3000 or 4000 level) credit hours. 36 upper-division credit hours are required for graduation. Consider additional upper-division options in the core or electives.</i>		

Totals	Completed	Needed
Total undergraduate hours (120 minimum):		

MINIMUM TOTAL: 120+

Note: All biology students must complete a Major Field Test prior to graduation