

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

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

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

# Bachelor of Arts in Biology

## 2016-2018 Catalog

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



UNIVERSITY  
ST. THOMAS  
HOUSTON

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 (126+)	

### 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)					
<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)	<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:					
<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				
<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.					
<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	<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>				
<b>History (6 credit hours)</b> Choose <b>one</b> 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				
<b>Social and Behavioral Sciences (6 credit hours)</b> Choose <b>one</b> option:					
<u>Social and Behavioral Sciences Option</u> <input type="checkbox"/> Choose <b>two</b> courses from the Social and Behavioral Sciences Core course list.	<u>Social and Behavioral Sciences + Oral Communication Option</u> <input type="checkbox"/> Choose <b>one</b> course from the Social & Behavioral Sciences Core course list. <input type="checkbox"/> Choose <b>one</b> course from the Communication Core Course list.				
<b>Natural Sciences (8-10 credit hours)</b> Choose <b>one</b> option:					
<u>Natural Sciences Option (8 credit hours)</u> <input type="checkbox"/> Choose <b>two</b> 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 <b>one</b> lecture/laboratory course from the Natural Sciences Core course list. <input type="checkbox"/> Choose <b>two</b> sequential courses in a language. Courses must be completed in order			(Included in major)	
<b>Mathematics (3 credit hours)</b>					
<input type="checkbox"/> Choose <b>one</b> course from the Mathematics Core Course list.				(Included in major)	
<b>Fine Arts (3 credit hours)</b>					
<input type="checkbox"/> Choose <b>one</b> course from the Fine Arts Core Course list.					
<b>Freshman Symposium (1 credit hour)</b> Required for all incoming freshmen.					
<input type="checkbox"/> UNIV 1111 Freshman Symposium					

# Bachelor of Arts in Biology

## 2016-2018 Catalog

Major Requirements (58-59 credit hours)	Completed	Needed				
<b>Biology (15 credit hours)</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 (BIOL 1351/1151/1352/1152, CHEM 1341/1141/1342/1142) <input type="checkbox"/> BIOL 3111 – Junior/Senior Seminar (BIOL 3321 and junior or senior standing) <input type="checkbox"/> BIOL 4332 – Evolution (Capstone) (BIOL 3321, senior standing)						
<b>Additional Biology Courses (14 credit hours)</b> Choose <b>one</b> course from each of the following four areas. Choices must include at least <b>two</b> laboratories. ( <i>*Courses marked with an asterisk require completion of BIOL 3321 Genetics</i> )						
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top; padding: 5px;"> <b>ECOSYSTEMS:</b>  <input type="checkbox"/> BIOL 3300 Field Studies in Ecology and Environmental Science*  <input type="checkbox"/> BIOL 3331 Ecology*  <input type="checkbox"/> BIOL 3341 Marine Biology*  <input type="checkbox"/> BIOL 4393 Special Topics in Ecology*               </td> <td style="width: 50%; vertical-align: top; padding: 5px;"> <b>CELLS:</b>  <input type="checkbox"/> BIOL 3333/3133 Microbiology and laboratory*  <input type="checkbox"/> BIOL 3339 Neuroscience*  <input type="checkbox"/> BIOL 3362 Cancer Biology*  <input type="checkbox"/> BIOL 3446 Comparative Histology w/ lab*  <input type="checkbox"/> BIOL 3461 Cell Biology w/ lab*  <input type="checkbox"/> BIOL 4336 Cells, Genes and Molecules (BIOL 3321, 3334, 3351, 3461 or 3362)               </td> </tr> <tr> <td style="vertical-align: top; padding: 5px;"> <b>ORGANISMS:</b>  <input type="checkbox"/> BIOL 3448 Comparative Anatomy w/ lab*  <input type="checkbox"/> BIOL 3333/3133 Microbiology w/ lab*  <input type="checkbox"/> BIOL 3338 Endocrinology*  <input type="checkbox"/> BIOL 3339 Neuroscience*  <input type="checkbox"/> BIOL 3345 Physiology (BIOL 1352/1152; CHEM 1342/1142)  <input type="checkbox"/> BIOL 4354/4154 Pathogenic Microbiology w/ lab*               </td> <td style="vertical-align: top; padding: 5px;"> <b>MOLECULES:</b>  <input type="checkbox"/> BIOL 3310 Bioinformatics* (BIOL 2111/3351)  <input type="checkbox"/> BIOL 3334/3134 Biochemistry and laboratory (CHEM 2343/2143)  <input type="checkbox"/> BIOL 3351/3151 Molecular Biology/Advanced Molecular Biology laboratory*(CHEM 2343, lab pre-req BIOL 3121)  <input type="checkbox"/> BIOL 3461 Cell Biology w/ lab*  <input type="checkbox"/> BIOL 4321 Nucleic Acids*  <input type="checkbox"/> BIOL 4449 Immunology w/ lab*               </td> </tr> </table>	<b>ECOSYSTEMS:</b> <input type="checkbox"/> BIOL 3300 Field Studies in Ecology and Environmental Science* <input type="checkbox"/> BIOL 3331 Ecology* <input type="checkbox"/> BIOL 3341 Marine Biology* <input type="checkbox"/> BIOL 4393 Special Topics in Ecology*	<b>CELLS:</b> <input type="checkbox"/> BIOL 3333/3133 Microbiology and laboratory* <input type="checkbox"/> BIOL 3339 Neuroscience* <input type="checkbox"/> BIOL 3362 Cancer Biology* <input type="checkbox"/> BIOL 3446 Comparative Histology w/ lab* <input type="checkbox"/> BIOL 3461 Cell Biology w/ lab* <input type="checkbox"/> BIOL 4336 Cells, Genes and Molecules (BIOL 3321, 3334, 3351, 3461 or 3362)	<b>ORGANISMS:</b> <input type="checkbox"/> BIOL 3448 Comparative Anatomy w/ lab* <input type="checkbox"/> BIOL 3333/3133 Microbiology w/ lab* <input type="checkbox"/> BIOL 3338 Endocrinology* <input type="checkbox"/> BIOL 3339 Neuroscience* <input type="checkbox"/> BIOL 3345 Physiology (BIOL 1352/1152; CHEM 1342/1142) <input type="checkbox"/> BIOL 4354/4154 Pathogenic Microbiology w/ lab*	<b>MOLECULES:</b> <input type="checkbox"/> BIOL 3310 Bioinformatics* (BIOL 2111/3351) <input type="checkbox"/> BIOL 3334/3134 Biochemistry and laboratory (CHEM 2343/2143) <input type="checkbox"/> BIOL 3351/3151 Molecular Biology/Advanced Molecular Biology laboratory*(CHEM 2343, lab pre-req BIOL 3121) <input type="checkbox"/> BIOL 3461 Cell Biology w/ lab* <input type="checkbox"/> BIOL 4321 Nucleic Acids* <input type="checkbox"/> BIOL 4449 Immunology w/ lab*		
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<b>Chemistry (12 credit hours)</b> 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						
<b>Additional Chemistry Course (4 credit hours)</b> Choose <b>one</b> course w/ lab from the following						
<input type="checkbox"/> CHEM 3333/3133 Organic Chemistry II and laboratory (CHEM 2343/2143) <input type="checkbox"/> BIOL/CHEM 3334/3134 Biochemistry and laboratory (CHEM 2343/2143) <input type="checkbox"/> CHEM 3343/3143 Analytical Chemistry and laboratory (CHEM 1341/1342)						
<b>Physics (4 credit hours)</b> Choose <b>one</b> 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)						
<b>Mathematics (3-4 credit hours)</b> Choose <b>one</b> from the following.						
<input type="checkbox"/> MATH 1331 Pre-Calculus Algebra and Trigonometry <input type="checkbox"/> MATH 1431 Calculus I <input type="checkbox"/> MATH 3450/1050 Biostatistics I (6 credit hours math or science)						
<b>Foreign Language (6 credit hours)</b>						
<input type="checkbox"/> Two sequential courses in a foreign language.						
Electives	Completed	Needed				
<b>Electives to reach the 126 hour minimum to graduate (21-22 hours)</b>						
<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				
<b>Total undergraduate hours (126 minimum):</b>						

MINIMUM TOTAL: 126+

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