

Bachelor of Science, Biology Major Degree Tracks					
Major Requirements: Total/Upper-Level Biology Credits	Pre- professional ≥36/≥28	Molecular ≥46/≥38	Organismal ≥46/≥38	General Studies ≥36/≥24	Prerequisites
<b>+ Minor (≥18 SCH)</b>	√	No minor	No minor	√	
BIOL 1306/1106 (Gen. Biology I)	√	√	√	√	None
BIOL 1307/1107 (Gen. Biology II)	√	√	√	√	Biology I
BIOL 3300/3101 or BIOL 3324/3125 (Microbiology or Cell Biology)	√	√√ (req's both)	√	√	Biology I, II Gen. Chem I, II O. Chem I
BIOL 3350/3151 (Hum. Anatomy)	Elective			√	Biology I, II
BIOL 3352/3153 or 4352/4153 (*Survey or &Principles of Physiology)	√&	√&	√&	√*	Biology I, II*& Gen. Chem I, II& Physics I, II&
BIOL 3310/3111 or BIOL 3312/3113 or 3230/3231 (%Invert Zool, %Vert Zool, or Botany#)	√%	√%	√√√ (req's all three courses)	√%#	Biology I, II
BIOL 4340/4141 (Genetics)	√	√	√	lab not required	Biology I, II 6 SCH UL# Biology
BIOL 4342 (Evolution)	√	√	√	√	Biology I, II Genetics
BIOL 4354 (Animal Behavior)	Elective		Elective	Elective	Biology I, II
BIOL 3372 (Ecology)	Elective		Elective	Elective	Biology I, II
BIOL 4320 (Biochemistry)	√	√	√	Elective	Biology I, II Gen. Chem I, II O. Chem I, II
BIOL 4303 (Nutrition)	Elective	Elective		Elective	Biology I, II Gen. Chem I, II O. Chem I
BIOL 4323 (Immunology)	Elective	Elective		Elective	Biology I, II
BIOL 4322 (Molecular Biology)	Elective	√		Elective	Biology I, II Gen. Chem I, II
BIOL 4362 (Histology)	Elective	Elective		Elective	Biology I, II Cell Biology
BIOL 3196 (Sup. lab teaching)	Elective	Elective	Elective	Elective	
BIOL 3197 (Preprof. Seminar)	Elective	Elective	Elective	Elective	
BIOL 4395 (Bioresearch)	Elective	Elective	Elective	Elective	
<b>+ electives (total/upper-level)</b>	<b>6/6</b>	<b>9/9</b>	<b>9/9</b>	<b>6/2</b>	
Support Requirements					
MATH 2413 (Calculus I)	√	√	√	√	
MATH 2414 (Calculus II)	√	√	√	√	Calculus I
CHEM 1311/1111 (Gen. Chem I)	√	√	√	√	
CHEM 1312/1112 (Gen. Chem II)	√	√	√	√	Gen. Chem I
CHEM 3311/3113 (O. Chem I)	√	√	√	√	
CHEM 3312/3114 (O. Chem II)	√	√	√	√	O. Chem I
PHYS 2325/2125 or 1301/1101 (University or College Physics I)	√	√	√	√	
PHYS 2326/2126 or 1302/1102 (University or College Physics II)	√	√	√	√	Calculus I (if Uni. Physics)
Departmental Requirements					
ENGL 3XXX (Upper-level English)	√	√	√	√	Core English
NTSC 4311 (Capstone)	√	√	√	√	≥ 1 year UL# STEM courses
MATH 1342 (Elem. Statistics)*	Recommended	Recommended	Recommended		
COSC 1335 (Comp. Program)	√	√	√	√	

Note: Common core and Minor courses are not included in this table. UL# = upper-level (3xxx or 4xxx).

<b>Bachelor of Science, Biology Major Teaching Certification</b>				
<b>Major Requirements: Total/Upper-Level Biology Credits</b>	<b>4-8<sup>th</sup> Generalist ≥26/≥18</b>	<b>7-12<sup>th</sup> Biology ≥26/≥18 (non-STEM minor)</b>	<b>7-12<sup>th</sup> Biology ≥26/≥18 (STEM minor)</b>	<b>Prerequisites</b>
BIOL 1306/1106 (General Biology I)	√	√	√	None
BIOL 1307/1107 (General Biology II)	√	√	√	Biology I
BIOL 3351/3152 (Human Anatomy)	Elective	Elective	Elective	Biology I, II
BIOL 3151/3153 (*Survey Human Phys)	Elective	Elective	Elective	Biology I, II
BIOL 3310/3111 or BIOL 3312/3113 or 3230/3231 (%Invert Zool, %Vert Zool, or Botany)	Elective	Elective	Elective	Biology I, II
BIOL 4340 (Genetics)	√	√	√	Biology I, II 6 SCH UL# Biology
BIOL 4342 (Evolution)	√	√	√	Biology I, II Genetics
BIOL 4354 (Animal Behavior)	Elective	Elective	Elective	Biology I, II
BIOL 3372 (Ecology)	√	√	√	Biology I, II
BIOL 3196 (Supervised lab teaching)				
BIOL 4395 (Bioresearch)				
<b>+ electives (total/upper-level)</b>	<b>9/9</b>	<b>9/9</b>	<b>9/9</b>	
<b>Support Requirements</b>				
CHEM 1311/1111 (Gen. Chem I)	√	√	√	
CHEM 1312/1112 (Gen. Chem II)	√	√	√	Gen. Chem I
CHEM 3311/3113 (O. Chem I)		√	√	Gen. Chem II
<b>Departmental Requirements</b>				
NTSC 4311 (Capstone)	√	√	√	≥ 1 year UL# STEM courses
COSC 1335 (Computer Programming)	√	√	√	

Note: Common core, Minor, and required math courses are not included. Contact COE for math requirements. UL# = upper-level (3xxx or 4xxx).