

# BIOLOGY (PRE-HEALTH PROFESSIONAL CONCENTRATION), BACHELOR OF SCIENCE

The University Core Curriculum is the same across all undergraduate bachelor's programs. Please consult the academic advisor for your designated major before selecting courses in this area.

## Summary

Code	Title	Hours
	General Education Core Curriculum (p. 1)	42
	Major Requirements (p. 1)	50
	Other Requirements (p. 1)	28
<b>Total Hours</b>		<b>120</b>

## General Education Core Curriculum (Standard)<sup>1</sup>

Code	Title	Hours
<b>Communication</b>		
ENGL 1301	Freshman English I	3
ENGL 1302	Freshman English II	3
<b>Mathematics</b>		
MATH 1314	College Algebra	3
<b>Life and Physical Sciences</b>		
CHEM 1311	Chemistry I	3
CHEM 1312	Chemistry II	3
<b>Language, Philosophy, and Culture</b>		
Select one of the following:		3
ENGL 2332	World Literature I	
ENGL 2333	World Literature II	
ENGL 2326	American Literature	
ENGL 2328	African-American Literature	
<b>Creative Arts</b>		
Select one of the following:		3
MUSI 1315	Fine Arts In Daily Living	
THEA 1310	Introduction to Theatre	
ARTS 1315	Intro African Art	3
<b>American History</b>		
HIST 1301	Soc & Pol Hist US to 1877	3
HIST 1302	Soc & Pol Hist US Since 1877	3
<b>Government/Political Science</b>		
POLS 2305	American Government	3
POLS 2306	Texas Government	3
<b>Social and Behavioral Sciences</b>		
Select one of the following:		3
PSYC 2301	General Psychology	
SOCI 1301	Introduction To Sociology	
SOCI 1306	Contemporary Social Issues	

## Institutional Options

COSC 1301	Intro To Compr Science I	3
COMM 1321	Business & Professional Comm	3
	or COMM 1315 Public Address	

**Total Hours** 45

1

Students should be advised by a major advisor prior to registering for any credit, particularly any core curriculum credit as listed.

## Major (Biology)

Code	Title	Hours
BIOL 111	Biological Science Lab I	1
BIOL 112	Biological Science Lab II	1
BIOL 1306	Biological Science I	3
BIOL 132	Biological Science II	3
BIOL 211	Cell Biology Lab	1
BIOL 212	Developmental Biology Lab	1
BIOL 231	Cell Biology	3
BIOL 232	Developmental Biology	3
BIOL 338	Genetics	3
BIOL 340	Biochemistry of Biological Com	3
BIOL 341	Organismic Biology	4
BIOL 347	Microbiology	4
BIOL 401	Undergraduate Research (Capstone Course)	3
BIOL 441	Histology	4
BIOL 443	Molecular Biology	4
BIOL 447	Human Physiology	3
BIOL 454	Immunology	3
BIOL 460	Biostatistics	3
<b>Total Hours</b>		<b>50</b>

## Other Requirements

Code	Title	Hours
CHEM 111	Chemistry I Lab	1
CHEM 112	Chemistry II Lab	1
CHEM 211	Organic Chem I Lab	1
CHEM 212	Organic Chem II Lab	1
CHEM 231	Organic Chem I	3
CHEM 232	Organic Chem II	3
MATH 2312	Precalculus Math	3
MATH 2413	Calculus & Analytic Geomtry I	4
PHYS 213	College Phys Lab I	1
PHYS 214	College Phys Lab II	1
PHYS 1301	College Physics I	3
PHYS 1302	College Physics II	3
FS 102	Freshman Seminar/ first Year Experience	1
Free electives		2
<b>Total Hours</b>		<b>28</b>

Course	Title	Hours
<b>First Year</b>		
<b>First Semester</b>		
BIOL 1306	Biological Science I	3
BIOL 111	Biological Science Lab I	1
CHEM 1311	Chemistry I	3
CHEM 111	Chemistry I Lab	1
ENGL 1301	Freshman English I	3
MATH 1314	College Algebra	3
FS 102	Freshman Seminar/ first Year Experience	1
COMM 1321 or COMM 1315	Business & Professional Comm or Public Address	3
<b>Hours</b>		<b>18</b>
<b>Second Semester</b>		
BIOL 132	Biological Science II	3
BIOL 112	Biological Science Lab II	1
CHEM 1312	Chemistry II	3
CHEM 112	Chemistry II Lab	1
ENGL 1302	Freshman English II	3
MATH 2312	Precalculus Math	3
Select one of the following:		3
MUSI 1315	Fine Arts In Daily Living	
THEA 1310	Introduction to Theatre	
ARTS 1315	Intro African Art	
ART 139	African-American Art & Culture	
<b>Hours</b>		<b>17</b>
<b>Second Year</b>		
<b>Third Semester</b>		
BIOL 231	Cell Biology	3
BIOL 211	Cell Biology Lab	1
CHEM 231	Organic Chem I	3
CHEM 211	Organic Chem I Lab	1
Select one of the following:		3
ENGL 2332	World Literature I	
ENGL 2333	World Literature II	
ENGL 2326	American Literature	
ENGL 2328	African-American Literature	
MATH 2413	Calculus & Analytic Geomtry I	4
HIST 1301	Soc & Pol Hist US to 1877	3
<b>Hours</b>		<b>18</b>
<b>Fourth Semester</b>		
BIOL 232	Developmental Biology	3
BIOL 212	Developmental Biology Lab	1
CHEM 232	Organic Chem II	3
CHEM 212	Organic Chem II Lab	1
COSC 1301	Intro To Compr Science I	3
HIST 1302	Soc & Pol Hist US Since 1877	3
<b>Hours</b>		<b>14</b>
<b>Third Year</b>		
<b>Fifth Semester</b>		
BIOL 338	Genetics	3
BIOL 340	Biochemistry of Biological Com	3

PHYS 213	College Phys Lab I	1
PHYS 1301	College Physics I	3
POLS 2305	American Government	3
<b>Hours</b>		<b>13</b>
<b>Sixth Semester</b>		
BIOL 347	Microbiology	4
BIOL 341	Organismic Biology	4
PHYS 214	College Phys Lab II	1
PHYS 1302	College Physics II	3
POLS 2306	Texas Government	3
<b>Hours</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Seventh Semester</b>		
BIOL 443	Molecular Biology	4
BIOL 460	Biostatistics	3
Free electives		2
Select one of the following:		3
PSYC 2301	General Psychology	
SOCI 1301	Introduction To Sociology	
SOCI 1306	Contemporary Social Issues	
<b>Hours</b>		<b>12</b>
<b>Eighth Semester</b>		
BIOL 401	Undergraduate Research (Capstone Course)	3
BIOL 441	Histology	4
BIOL 447	Human Physiology	3
BIOL 454	Immunology	3
<b>Hours</b>		<b>13</b>
<b>Total Hours</b>		<b>120</b>

1

Students should be advised by a major advisor prior to registering for any credit, particularly any core curriculum credit as listed.