

BACHELOR OF SCIENCE BIOLOGY

A MINOR IS NOT REQUIRED FOR THE BACHELOR OF SCIENCE DEGREE IN BIOLOGY

All degrees require a minimum of 120 credit hours, excluding remedial courses. A minimum of 39 credit hours must be advanced level.

<u>GENERAL EDUCATION REQUIREMENTS</u>	HOURS
LEADERSHIP, EXCELLENCE, AND VIRTUE (3 hrs) Select 3 hrs from HIST 2330, 2340, REL 2309, SCI 2310, SLD 1300, 1310 SOC 1300	3
MATHEMATICS (3 hrs) Select 3 hrs from MATH 1311, 1312, 1315, 1320, 2421, 2322, 3351	3
WRITTEN COMMUNICATION (6 hrs) ENG 1310 ENG 1320	3 3
ORAL COMMUNICATION (3 hrs) COMM 1310, 2330	3
CRITICAL REASONING (3 hrs) Select 3 hrs from BIMS 1300, COMM 2350, C SC 1322, 1325, ENG 2310, 2320, 2350, MATH 2315, PHIL 2350, 2360	3
UNDERSTANDING CHRISTIAN TRADITION (3 hrs) Select 3 hrs from REL 1330, 2330, 2340	3
FINE ARTS (3 hrs) Select 3 hrs from ART 1300, FA 2310, MLH 2301, THRE 1300	3
GLOBAL, SOCIETAL, AND PERSONAL PERSPECTIVES (11 hrs) <u>World</u> Select 3 hrs from ENG 2330, HIST 1310, 1320, 2300, REL 2350, PSC 2350, SOC 2310, 2320 <u>Society and Self</u> Select 6 hrs from two disciplines ECON 2310, 2320, HIST 2310, 2320, PSC 2310, PSYC 1340, 2360, SOC 2300, <u>Health and Fitness</u> Select 2 hrs from H F 1210 H F 1200 * (for students age 30 or above, or medical exemption)	3 6 2
NATURAL SCIENCE (4 hrs) (as required by major) Select 4 hrs from BIOL 1401, 2401, CHEM 1400, 1405, 1410, GEOS 1405, 1410, 2420, PHYS 1400, 1401, 1410, 2510	4
TOTAL HOURS	39

MAJOR IN BIOLOGY (4-8 hours may also meet general education requirements)	
<u>BIOLOGY</u>	HOURS
BIOL 1301	3
BIOL 1402	4
BIOL 1403	4
BIOL 2110	1
BIOL 3440	4
BIOL 3460	4
BIOL 4430	4
BIOL 4450	4
BIOL 4201	2
BIOL 4101	1
Select 9 hrs from BIOL 4340, 4360, 4X91, 4X92	9
SUB TOTAL HOURS	40
SUPPORTING COURSES	
CHEM 1410	4
CHEM 1420	4
PHYS 1410	4
GEOS 1410	4
GEOG 3330	3
Select 3-4 hrs from MATH 2421, 3351	3-4
Select 8 hrs from CHEM 3410 AND CHEM 3420 OR Organic Track CHEM 3440, GEOS 2240 , GEOS 2220 Environmental Track	4 4
TOTAL HOURS 3210 3220	70-71

FOREIGN LANGUAGE REQUIREMENT:

8 hours in a single foreign language will be required unless two years of a single foreign language were completed in high school or the student graduated from high school prior to 1993. The University foreign language requirement is described on page 32-33 of the catalog.

B.S. in BIOLOGY FALL	SPRING
<p>Freshman Year: BIOL 1301 Unicellular Organisms CHEM 1410 General Chemistry I MATH 1311 College Algebra</p> <p>We recommend completing math requirements as early as possible: Requirement for this major: MATH 2421 Calculus 1 OR MATH 3351 Statistics. Ability to succeed in college level algebra is required for General Chemistry I, and completion of MATH 1311 College Algebra is required to enroll in MATH 3351 Statistics and PHYS 1410.</p> <p>Total Biology & Math Hours: 10 hrs</p> <p>Total Gen Ed/Electives Hours: 6 hrs</p> <p>Total Hours Enrolled: 16 hrs</p>	<p>BIOL 1403 Biology of Animals CHEM 1420 General Chemistry II MATH 2421 Calculus I OR MATH 3351 Statistics</p> <p>Total Biology Hours: 11-12 hrs</p> <p>Total Recommended Gen Ed/Electives Hours: 3-6 hrs</p> <p>Total Hours Enrolled: 14-18 hrs*</p> <p>*Failure to successfully complete an average of at least 30 semester credit hours per year of courses required for the declared major will delay graduation. Failure to maintain a load of at least 12 semester credit hours in a semester will result in athletic ineligibility.</p>
<p>Sophomore Year: BIOL 1402 Biology of Plants GEOS 1410 Physical Geology CHEM 3410 Organic Chemistry I (organic track)</p> <p>Total Biology Hours: 8-12 hrs</p> <p>Total Recommended Gen Ed/Electives Hours: 3-9 hrs</p> <p>Total Hours Enrolled: 15-17 hrs</p>	<p>BIOL 2110 Environmental Seminar BIOL 4430 Ecology (even years) OR BIOL 4450 Advanced Botany (odd years) CHEM 3420 Organic Chemistry II (organic track) OR CHEM 3440 Environmental Chemistry (environmental track, even years)</p> <p>Total Biology Hours: 9 hrs</p> <p>Total Recommended Gen Ed/Electives Hours: 6 hrs</p> <p>Total Hours Enrolled: 15 hrs</p>
<p>Junior Year: BIOL 3440 Comparative Anatomy BIOL 3460 Genetics PHYS 1410 General Physics I GEOS 3210 Geology of Texas and GEOS 3220 Applied Environmental Geology (environmental track)</p> <p>Total Biology Hours: 12-16 hrs</p> <p>Total Recommended Gen Ed/Electives Hours: 0-4 hrs</p> <p>Total Hours Enrolled: 15-16 hrs</p>	<p>BIOL 4430 Ecology (even years) OR BIOL 4450 Advanced Botany (odd years) Upper level Biology Elective (3-4 hrs) GEOG 3330 Biogeography (even years)</p> <p>Total Biology Hours: 10-11 hrs</p> <p>Total Recommended Gen Ed/Electives Hours: 6 hrs</p> <p>Total Hours Enrolled: 16-17 hrs</p>
<p>Senior Year: BIOL 4201 Senior Capstone Upper level Biology Elective (3-4 hrs)</p> <p>Total Biology Hours: 5-6 hrs</p> <p>Total Recommended Gen Ed/Electives Hours: 6-9 hrs</p> <p>Total Hours Enrolled: 14-15 hrs</p>	<p>BIOL 4101 Biological Literature Upper level Biology Elective (3-4 hrs)</p> <p>Total Biology Hours: 4-5 hrs</p> <p>Total Recommended Gen Ed/Electives Hours: 9 hrs</p> <p>Total Hours Enrolled: 13-14 hrs</p>
<p>Total BS Biology Hours: 70-71 Total Gen Ed Hours: 39 Total Elective Hours: 10-11 Total Degree Hours: 120</p>	<p>Total Upper Level Hours: 39</p>