

BIOLOGY - BA

The BA degree in Biology, through the availability of a large number of electives, gives students maximum flexibility in earning a biology degree. The 15-18 hour minor requirement, including 6 hours of advanced courses in a discipline other than biology, provides students with the opportunity to include significant coursework in areas such as foreign language, business, education, or social sciences. The BA program is recommended for students with broad educational objectives or who intend to pursue further education in areas such as allied health professions, professional schools, or teaching certification.

Program Requirements

First Year

Fall		Semester Credit Hours
BIOL 111	Introductory Biology I	4
CHEM 101 & CHEM 111	Fundamentals of Chemistry I and Fundamentals of Chemistry Laboratory I	4
MATH 147	Calculus I for Biological Sciences	4
Communication elective (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)		3
Semester Credit Hours		15

Spring

BIOL 112	Introductory Biology II	4
CHEM 102 & CHEM 112	Fundamentals of Chemistry II and Fundamentals of Chemistry Laboratory II	4
MATH 148	Calculus II for Biological Sciences	4
Communication elective (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication)		3
Semester Credit Hours		15

Second Year

Fall		Semester Credit Hours
BIOL 213	Molecular Cell Biology	3
CHEM 227 & CHEM 237	Organic Chemistry I and Organic Chemistry Laboratory	4
PHYS 201	College Physics	4
American history elective (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ^{1,2}		3
Semester Credit Hours		14

Spring

BIOL 214	Genes, Ecology and Evolution	3
CHEM 228 & CHEM 238	Organic Chemistry II and Organic Chemistry Laboratory	4
PHYS 202	College Physics	4

American history elective (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ^{1,2}	3
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Semester Credit Hours	14
Total Semester Credit Hours	58

- Students seeking teacher certification must take HIST 105 and HIST 106. Other students may choose HIST 105 and HIST 106 or any 6 hours of American history courses (3 hours may be in Texas history).
- Students successfully completing the required four semesters of upper-level ROTC courses may substitute these courses for 3 hours of American history and 3 hours of government/political science.

The following are CBK courses and must be completed prior to the start of 5th full semester: BIOL 111, BIOL 112, BIOL 213, BIOL 214, CHEM 101 & CHEM 111, CHEM 102 & CHEM 112, CHEM 227 & CHEM 237, CHEM 228 & CHEM 238, MATH 147, MATH 148.

Third Year

Fall		Semester Credit Hours
BICH 410	Comprehensive Biochemistry I	3
BICH 412	Biochemistry Laboratory I	1
POLS 206	American National Government ³	3
STAT 302	Statistical Methods	3
Elective ⁴		3
Semester Credit Hours		13

Spring

BICH 411	Comprehensive Biochemistry II	3
POLS 207	State and Local Government ³	3
Select one of the following: ⁵		3
Any 300-400 level BIOL course (http://catalog.tamu.edu/undergraduate/course-descriptions/biol)		
GENE 302 & GENE 312	Principles of Genetics and Comprehensive Genetics Laboratory	
OCNG 420	Biological Oceanography	
VIBS 343	Histology	
VIBS 443	Biology of Mammalian Cells and Tissues	
Elective ⁴		6
Semester Credit Hours		15

Fourth Year

Fall		Semester Credit Hours
Select 7 credit hours from the following: ⁵		7
300-400 level BIOL course (http://catalog.tamu.edu/undergraduate/course-descriptions/biol)		
GENE 302 & GENE 312	Principles of Genetics and Comprehensive Genetics Laboratory	
OCNG 420	Biological Oceanography	
VIBS 343	Histology	
VIBS 443	Biology of Mammalian Cells and Tissues	

Social and behavioral sciences elective (<http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences>) 3

Electives ⁴	7
Semester Credit Hours	17
Spring	
Select one of the following: ⁵	4
300-400 level BIOL course (http://catalog.tamu.edu/undergraduate/course-descriptions/biol)	
GENE 302 Principles of Genetics & GENE 312 and Comprehensive Genetics Laboratory	
OCNG 420 Biological Oceanography	
VIBS 343 Histology	
VIBS 443 Biology of Mammalian Cells and Tissues	
Creative arts elective (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts)	3
Language, philosophy and culture elective (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture)	3
Electives ⁴	7
Semester Credit Hours	17
Total Semester Credit Hours	62

³ Students successfully completing the required four semesters of upper-level ROTC courses may substitute these courses for 3 hours of American history and 3 hours of government/political science.

⁴ Select from any 100-499 course not used elsewhere. (Except AGLS 101; BIMS 101; BIOL 101, BIOL 107, BIOL 113, BIOL 206; BUSN 100; CAEN 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/caen>); CHEM 106, CHEM 116; HORT 101; MATH 102; STLC 100-499 (<http://catalog.tamu.edu/undergraduate/course-descriptions/stlc>); WFSC 101.) Only one KINE 199 may be used as a general elective.

⁵ Two courses in the major must be designated as writing intensive.

Total Program Hours 120