

BACHELOR OF SCIENCE IN BIOLOGY

Web Site: <https://twu.edu/biology/undergraduate-programs/bachelor-of-science-in-biology/>

Degree Requirements

Total Semester Credit Hours (SCH): 121-122

Major: 36 SCH; **Required Minor:** 18 SCH (Chemistry is the recommended minor)

Program Code: BIOLOGY.BS; **CIP Code:** 26.0101.00

A minimum grade of C is mandatory in all required courses for Biology majors.

Texas Core Curriculum

Code	Title	SCHs
ENG 1013	Composition I	3
ENG 1023	Composition II	3
Mathematics		3
Life & Physical Sciences		6
Language, Philosophy, & Culture		3
Creative Arts		3
HIST 1013	History of the United States, 1492-1865	3
HIST 1023	History of the United States, 1865 to the Present	3
POLS 2013	U.S. National Government	3
POLS 2023	Texas Government	3
Social & Behavioral Sciences		3
CAO: Women's Studies		3
CAO: First Year Seminar, Wellness or Mathematics		3
Total SCHs		42

Courses Required for Major

Code	Title	SCHs
BIOL 1113 & BIOL 1111	Principles of Biology I and Principles of Biology I Laboratory	4
BIOL 1123 & BIOL 1121	Principles of Biology II and Principles of Biology II Laboratory	4
BIOL 2113 & BIOL 2111	Plant Biology and Plant Biology Laboratory	4
BACT 3113 & BACT 3111	General Microbiology and General Microbiology Laboratory	4
ZOOL 4243 & ZOOL 4241	Medical Physiology and Medical Physiology Laboratory	4
BIOL 4681	Biology Seminar	1
BIOL 4813 & BIOL 4811	Molecular and Cellular Biology: Gene Expression and Molecular and Cellular Biology: Gene Expression Laboratory	4

BIOL 4823 & BIOL 4821	Molecular and Cellular Biology: Genetics and Inheritance and Molecular and Cellular Biology: Genetics and Inheritance Laboratory	4
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Biology Elective 7

Biology Elective hours must include coursework appropriate for science majors. The following courses are not acceptable electives: BACT 1003/BACT 1001, BIOL 1013, BIOL 1023, BIOL 1033, and BIOL 1223.

Total SCHs 36

Departmental Requirements

Code	Title	SCHs
CHEM 1113 & CHEM 1111	General Chemistry I and General Chemistry Laboratory I	4
CHEM 1123 & CHEM 1121	General Chemistry II and General Chemistry Laboratory II	4
CHEM 2213 & CHEM 2211	Organic Chemistry I and Organic Chemistry Laboratory I	4
CHEM 3223 & CHEM 3221	Organic Chemistry II and Organic Chemistry Laboratory II	4
MATH 1303	Elementary Analysis I (may be applied from core)	3
MATH 1313	Elementary Analysis II (may be applied from core)	3
MATH 1703	Elementary Statistics I (may be applied from core)	3-4
or MATH 2014	Calculus I	
Choose one of the following		4
PHYS 1133 & PHYS 1131	Principles of Physics I and Principles of Physics Laboratory I (may be applied from core)	
PHYS 2153 & PHYS 2151	General Physics I and General Physics Laboratory I	
Choose one of the following		4
PHYS 1143 & PHYS 1141	Principles of Physics II and Principles of Physics Laboratory II (may be applied from core)	
PHYS 2163 & PHYS 2161	General Physics II and General Physics Laboratory II	
Electives/Minor		18
Total SCHs		51-52