BS – Biochemistry with a minor in biology (with ACS certification) (SC-BCHM/ACS/BIO)  
2017 Catalog year: College of Science and Engineering

This is not an official degree audit and it is subject to change. This chart is intended to be used by students who start out at Texas State. Please contact the College of Science Undergraduate Advising Center for advising.

Note: In addition to major courses, students must also complete all core and minor requirements (if applicable) and any other requirements for graduation.

Core courses must be completed:
- _US 1100_  
- _COMM 1310_  
- _PHIL 1305 or 1320_  
- _ENG 1310_  
- _ENG 1320_  
- _ENG 2310-2360_  
- _HIST 1310_  
- _HIST 1320_  
- _ART/DAN/MU/TH 2313_  
- _POSI 2310_  
- _POSI 2320_  
- _ANTH 1312/ECO 2301/ECO 2314/GEO 1310/PSY 1300/SOCI 1310_  

US 1100 & ENG 1310 recommended for first semester. HIST 1310/1320 not recommended for first semester.

KEY:  
Arrows indicate prerequisites.  
Arrows with dotted lines indicate co-requisites.  
Arrows with dash lines are recommended prerequisites.  
Courses taught specific semesters are indicated with the following codes:  
- **F**-Fall  
- **S**-Summer Session I or II  
- **S**-Spring  

Required WI courses: CHEM 3381, 4481, 4382

---

Freshman Fall semester:
- BIO 1330 (F,S) & BIO 1130 (F,S):
  - Functional Biology
- CHEM 1341 (F,S,Su) & CHEM 1141 (F,S):
  - General Chemistry I

Freshman Spring semester:
- MATH 2471 (F,S,Su):
  - Calculus I
- BIO 1331 (F,S) & BIO 1131 (F,S):
  - Organismal Biology
- CHEM 1342 (F,S,Su) & CHEM 1142 (F,S,Su):
  - General Chemistry II

Sophomore Fall semester:
- PHYS 1430 (F,S):
  - Mechanics
- MATH 2472 (F,S,Su):
  - Calculus II
- CHEM 2341 (F,S,Su) & CHEM 2141 (F,S,Su):
  - Organic Chemistry I
- CHEM 2342 (F,S,Su) & CHEM 2142 (F,S,Su):
  - Organic Chemistry II

Sophomore Spring semester:
- PHYS 2425 (F,S):
  - Electricity & Magnetism
- BIO 2450 (F,S):
  - Genetics
- CHEM 3375 (F):
  - Principles of Biochemistry

Junior Fall semester:
- CHEM 3390 (F):
  - Physical Chemistry of Biochemistry
  - Fall only starting Fall 2016, students will need overrides if they are lacking CHEM 3375.
- BIO 2400 (F,S):
  - Microbiology
- CHEM 3341 (F):
  - Descriptive Inorganic Chemistry

Junior Spring semester:
- CHEM 3380 (S):
  - Analytical Biochemistry
- CHEM 4360 (F):
  - Molecular Biology

Senior Fall semester:
- CHEM 3381 (S):
  - Biochemistry Techniques
- CHEM 4481 (F):
  - Advanced Biochem Lab I

Senior Spring semester:
- CHEM 4382 (S):
  - Advanced Biochem Research
- CHEM 4385 (S):
  - Metabolism
- CHEM 4299:
  - For Biology minor only: 9 hours advanced biology electives, chosen in consultation with an academic advisor.

Check for additional prerequisites. DO NOT COUNT: BIO 3351, 4305, 4402, 4403, 4408

Extra advanced hours may be required. See advisor.