BS – Biochemistry with a minor in biology (with ACS certification)  (SC-BS/BCHM/ACS/BIO)  2018 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.

**BS – Biochemistry with a minor in biology (with ACS certification)  (SC-BS/BCHM/ACS/BIO)**

### 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/ECC 2301/ECC 2314/GEO 1310/PSY 1300/SOC 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-Spring, US – Summer Session I or II.
- Required WI courses: CHEM 3381, 4481, 4382

### Fall semester

- **PHYS 1430 (F,S)** Mechanics
- **MATH 2471 (F,S,Su)** Calculus I
- **CHEM 1341 (F,S,Su)** General Chemistry I
- **CHEM 1342 (F,S,Su)** General Chemistry II
- **CHEM 2341 (F,S,Su)** Organic Chemistry I
- **CHEM 2342 (F,S,Su)** Organic Chemistry II
- **PHYS 2425 (F,S)** Electricity & Magnetism
- **BIO 2400 (F,S)** Microbiology
- **CHEM 3375 (F)** Principles of Biochemistry
- **CHEM 3381 (S)** Biochemistry Techniques
- **CHEM 4481 (F)** Advanced Biochem Lab I
- **CHEM 4382 (S)** Advanced Biochem Research
- **CHEM 4385 (S)** Metabolism
- **CHEM 4360 (F)** Molecular Biology
- **CHEM 3380 (S)** Analytical Biochemistry
- **CHEM 3341 (F)** Descriptive Inorganic Chemistry
- **CHEM 4299**

### Spring semester

- **BIO 2450 (F,S)** Genetics
- **PHYS 1430 (F,S)** Mechanics
- **MATH 2472 (F,S,Su)** Calculus II
- **CHEM 1341 (F,S,Su)** General Chemistry I
- **CHEM 1342 (F,S,Su)** General Chemistry II
- **CHEM 2341 (F,S,Su)** Organic Chemistry I
- **CHEM 2342 (F,S,Su)** Organic Chemistry II
- **CHEM 3375 (F)** Principles of Biochemistry
- **CHEM 3381 (S)** Biochemistry Techniques
- **CHEM 4481 (F)** Advanced Biochem Lab I
- **CHEM 4382 (S)** Advanced Biochem Research
- **CHEM 4385 (S)** Metabolism
- **CHEM 4360 (F)** Molecular Biology
- **CHEM 3380 (S)** Analytical Biochemistry
- **CHEM 3341 (F)** Descriptive Inorganic Chemistry
- **CHEM 4299**

### Freshman

- **BIO 1330 (F,S)** & **BIO 1130 (F,S)** Functional Biology
- **CHEM 1341 (F,S,Su)** General Chemistry I
- **CHEM 1342 (F,S,Su)** General Chemistry II
- **CHEM 2341 (F,S,Su)** Organic Chemistry I
- **CHEM 2342 (F,S,Su)** Organic Chemistry II
- **PHYS 1430 (F,S)** Mechanics
- **MATH 2471 (F,S,Su)** Calculus I
- **MATH 2472 (F,S,Su)** Calculus II
- **PHYS 2425 (F,S)** Electricity & Magnetism
- **BIO 2400 (F,S)** Microbiology
- **CHEM 3375 (F)** Principles of Biochemistry
- **CHEM 3381 (S)** Biochemistry Techniques
- **CHEM 4481 (F)** Advanced Biochem Lab I
- **CHEM 4382 (S)** Advanced Biochem Research
- **CHEM 4385 (S)** Metabolism
- **CHEM 4360 (F)** Molecular Biology
- **CHEM 3380 (S)** Analytical Biochemistry
- **CHEM 3341 (F)** Descriptive Inorganic Chemistry
- **CHEM 4299**

### Sophomore

- **PHYS 1430 (F,S)** Mechanics
- **MATH 2471 (F,S,Su)** Calculus I
- **BIO 1331 (F,S)** & **BIO 1131 (F,S)** Organismal Biology
- **CHEM 1341 (F,S,Su)** General Chemistry I
- **CHEM 1342 (F,S,Su)** General Chemistry II
- **CHEM 2341 (F,S,Su)** Organic Chemistry I
- **CHEM 2342 (F,S,Su)** Organic Chemistry II
- **PHYS 2425 (F,S)** Electricity & Magnetism
- **BIO 2450 (F,S)** Genetics
- **CHEM 3375 (F)** Principles of Biochemistry
- **CHEM 3381 (S)** Biochemistry Techniques
- **CHEM 4481 (F)** Advanced Biochem Lab I
- **CHEM 4382 (S)** Advanced Biochem Research
- **CHEM 4385 (S)** Metabolism
- **CHEM 4360 (F)** Molecular Biology
- **CHEM 3380 (S)** Analytical Biochemistry
- **CHEM 3341 (F)** Descriptive Inorganic Chemistry
- **CHEM 4299**

### Junior

- **PHYS 1430 (F,S)** Mechanics
- **MATH 2471 (F,S,Su)** Calculus I
- **BIO 1331 (F,S)** & **BIO 1131 (F,S)** Organismal Biology
- **CHEM 1341 (F,S,Su)** General Chemistry I
- **CHEM 1342 (F,S,Su)** General Chemistry II
- **CHEM 2341 (F,S,Su)** Organic Chemistry I
- **CHEM 2342 (F,S,Su)** Organic Chemistry II
- **PHYS 2425 (F,S)** Electricity & Magnetism
- **BIO 2450 (F,S)** Genetics
- **CHEM 3375 (F)** Principles of Biochemistry
- **CHEM 3381 (S)** Biochemistry Techniques
- **CHEM 4481 (F)** Advanced Biochem Lab I
- **CHEM 4382 (S)** Advanced Biochem Research
- **CHEM 4385 (S)** Metabolism
- **CHEM 4360 (F)** Molecular Biology
- **CHEM 3380 (S)** Analytical Biochemistry
- **CHEM 3341 (F)** Descriptive Inorganic Chemistry
- **CHEM 4299**

### Senior

- **PHYS 1430 (F,S)** Mechanics
- **MATH 2471 (F,S,Su)** Calculus I
- **BIO 1331 (F,S)** & **BIO 1131 (F,S)** Organismal Biology
- **CHEM 1341 (F,S,Su)** General Chemistry I
- **CHEM 1342 (F,S,Su)** General Chemistry II
- **CHEM 2341 (F,S,Su)** Organic Chemistry I
- **CHEM 2342 (F,S,Su)** Organic Chemistry II
- **PHYS 2425 (F,S)** Electricity & Magnetism
- **BIO 2450 (F,S)** Genetics
- **CHEM 3375 (F)** Principles of Biochemistry
- **CHEM 3381 (S)** Biochemistry Techniques
- **CHEM 4481 (F)** Advanced Biochem Lab I
- **CHEM 4382 (S)** Advanced Biochem Research
- **CHEM 4385 (S)** Metabolism
- **CHEM 4360 (F)** Molecular Biology
- **CHEM 3380 (S)** Analytical Biochemistry
- **CHEM 3341 (F)** Descriptive Inorganic Chemistry
- **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