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 – Microbiology with Biochemistry minor (PRE-MED) (SC-BS/MICR/BCHM)

2018 Catalog year: College of Science and Engineering

**Freshman**

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

- **Spring semester**
  - CHEM 1342 (F,S,Su) & CHEM 1142 (F,S) General Chemistry II
  - BIO 2480 (F,S,Su) Genetics

**Sophomore**

- **Fall semester**
  - BIO 2400 (F,S) Microbiology
  - MATH 2321 (F,S,Su) & MATH 2328 (F,S,Su) or MATH 2471 (F,S,Su) & MATH 2328 (F,S,Su)
    - See advisor for guidance.

- **Spring semester**
  - CHEM 2341 (F,S,Su) Genes & CHEM 2141 (F,S,Su) Organic Chemistry I
  - CHEM 2342 (F,S,Su) or CHEM 4375 (F) Biochemistry

**Junior**

- **Fall semester**
  - PHYS 1315 (F,S,Su) & PHYS 1115 (F,S,Su) General Physics I
  - Required WI courses: BIO 4416
  - Additional WI courses: BIO 3442, 4166, 4441, 4446, 4447

- **Spring semester**
  - PHYS 1325 (F,S,Su) & PHYS 1125 (F,S,Su) General Physics II
  - 11-12 hours from:
    - BIO 3442 (F,S) - Virology
    - BIO 43264126 (F,S) - Immunology
    - BIO 43664166 (F,S) - Medical Microbiology
    - BIO 43764176 – Microbial Biotech (previously BIO 4350R)
    - BIO 4413 (F) – Parasitology (instructor approval req.)
    - BIO 3430 (F) – Mycology
    - BIO 4440 (F) – Cytology & Microtechnique
    - BIO 4447 (F) – Microbial Phys & Genetics
    - BIO 4446 (S) – Microbial Ecology
    - BIO 4448 (S) – Bacterial Genetics (previously BIO 4350L)
    - Note: BIO 4447 cannot count for both physiology and advanced microbiology. Only counts for one requirement. If taking BIO 4366, must also complete BIO 4166. If taking BIO 4326, must also complete 4126. Check course prerequisites.

**Senior**

- **Fall semester**
  - BIO 4301 (F,S) General Ecology

- **Spring semester**
  - BIO 4321 (F,S) Vertebrate Physiology
  - 3-4 hours advanced biology electives, chosen in consultation with an academic advisor.
  - BIO 4299 requires faculty and departmental approval to count towards advanced electives and must be taken twice. Check course prerequisites.

**Core courses must be completed:**

- US 1100
- ENG 1310
- HIST 1310
- PSY 1300
- COMM 1310
- ENG 1320
- HIST 1320
- POS 2310
- POS 2320
- PHIL 1320
- ART/DAN/MU/TH 2313

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