BS – Microbiology with Biochemistry minor (PRE-MED) (SC-BS/MICR/BCHM/PMMI) 2018 Catalog year: College of Science and Engineering

**Freshman Fall semester**
- CHEM 1341 (F,S,Su) & CHEM 1141 (F,S)
  - General Chemistry I
  - Organic Chemistry I

**Freshman Spring semester**
- BIO 1330 (F,S)
  - Functional Biology
- BIO 1331 (F,S) & BIO 1131 (F,S)
  - Organismal Biology

**Sophomore Fall semester**
- BIO 2450 (F,S,Su)
  - Genetics
- CHEM 2341 (F,S,Su) & CHEM 2141 (F,S,Su)
  - General Chemistry II
  - Organic Chemistry II

**Sophomore Spring semester**
- BIO 2400 (F,S)
  - Microbiology
- CHEM 2342 (F,S,Su) & CHEM 2142 (F,S,Su)
  - General Chemistry II
  - Organic Chemistry II

**Junior Fall semester**
- PHYS 1315 (F,S,Su)
  - General Physics I
- PHYS 1115 (F,S,Su)
  - General Physics I

**Junior Spring semester**
- PHYS 1325 (F,S,Su)
  - General Physics II
- PHYS 1125 (F,S,Su)
  - General Physics II

**Senior Fall semester**
- Elective hours
  - (as needed, see advisor)

**Senior Spring semester**
- 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__
- __COMM 1310__
- __PHIL 1320__
- __ENG 1310__
- __ENG 1320__
- __ART/TH 2310-2360__
- __HIST 1310__
- __HIST 1320__
- __PSY 2310__
- __PSY 2320__

**Choose one set:**
- MATH 2321 (F,S,Su) & MATH 2328 (F,S,Su)
- MATH 2471 (F,S,Su) & MATH 2328 (F,S,Su)

*See advisor for guidance.*

**11-12 hours from:**
- BIO 3442 (F,S) - Virology
- BIO 3432 (F,S) - Immunology
- BIO 3466/4416 (F,S) - Medical Microbiology
- BIO 3476/4476 – Microbial Biotech (previously BIO 4350R)

**3 hours from:**
- BIO 4301 (F,S) - General Ecology
- BIO 4310 - Evolution
- CHEM 4385 (S) - Metabolism

**Required WI courses:** BIO 4416

**Additional WI courses:** BIO 3442, 4166, 4441, 4446, 4447

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.

**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
  - Su-Summer Session I or II
- Required WI courses: BIO 4416
- Additional WI courses: BIO 3442, 4166, 4441, 4446, 4447