Choose one set:
MATH 2321 (F,S,Su) & MATH 2328 (F,S,Su)
or
MATH 2471 (F,S,Su) & MATH 2472 (F,S,Su)
or
MATH 2321 (F,S,Su) & MATH 2331 (F,S,Su)

See advisor for guidance.

BS – Microbiology with Biochemistry minor
(SC-BS/MICR/CHEM)

2017 Catalog year: College of Science and Engineering

Freshman
Fall semester

Freshman
Spring semester

Sophomore
Fall semester

Sophomore
Spring semester

Junior
Fall semester

Junior
Spring semester

Senior
Fall semester

Senior
Spring semester

BIO 1330
(F,S)
&
BIO 1130
(F,S)
Functional Biology

BIO 1331
(F,S)
&
BIO 1131
(F,S)
Organizational Biology

BIO 2480
(F,S,Su)
Genetics

BIO 2400
(F,S)
Microbiology

CHEM 1341
(F,S,Su)
&
CHEM 1141
(F,S,Su)
General Chemistry I

CHEM 1342
(F,S,Su)
&
CHEM 1142
(F,S,Su)
General Chemistry 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

CHEM 3375
(F)
or
CHEM 4375
(F,S,Su)
Biochemistry

CHEM 3276
(F,S)
Experimental Biochem

11-12 hours from:
BIO 3442 (F,S) - Virology
BIO 4326/4426 (F,S) - Immunology
BIO 4366/4466 (F,S) - Medical Microbiology
BIO 4350R - Microbial Biotech (effective fall 2016, per McLean, 11/28/16)

BIO 4413 (F) - Parasitology (instructor approval req.)
BIO 3430 (F) - Mycology
BIO 4480 (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 4466, must also complete BIO 4166. If taking BIO 4326, must also complete 4126. Check course prerequisites.

4 hours from:
BIO 4441 (S)
BIO 4447 (F)
BIO 3421 (F,S)

(Check chemistry prerequisites)

3 hours from:
CHEM 4360 (F)
Adv Biochem & Molecular Bio

CHEM 4385 (S)
Metabolism

Elective hours
(as needed, see advisor)

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.

DO NOT COUNT: BIO 3351, 4305, 4402, 4403, 4408

KEY:
Arrows indicate prerequisites.
Arrows with dotted lines indicate corequisites.
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

Core courses must be completed:
____ US 1100
____ COMM 1310
____ PHIL 1305 or 1320
____ ENG 1310
____ ENG 2310
____ ENG 2310-2360
____ HIST 1310
____ HIST 1320
____ ART/DAN/MU/TH 2313
____ POSI 2310
____ POSI 2320
____ ANTH 1312/ECO 2301/ECO 2314/PHS 1310/SOC/1310

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

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

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.