### BS Microbiology with biochemistry minor

2011 Catalog (SC-BS/MICR/BCHM)

**College of Science and Engineering Undergraduate Advising Center**

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 prerequisite.

Courses taught specific semesters are indicated with the following codes:
- F-Fall
- S-Spring
- S1-Summer Session I
- S2-Summer Session II

### Required WI courses: BIO 4416

Additional WI courses: BIO 3308, 3370, 3422, 3442, 3460, 4420, 4423, 4426, 4441, 4445, 4446, 4447, 4454, 4464, 4470, 4472

### Core courses must be completed:
- US 1100
- COMM 1310
- ART/DAN/MU/TH 2313
- PHIL 1305 or 1320
- ENG 1310
- ENG 1320
- HIST 1310
- HIST 1320
- POSI 2310
- POSI 2320
- ENG 2310-2360
- ANTH 1312/ECO 2301/ECO 2314/GEO 1310/PSY 1300/SOCI 1310

ENG 1310 recommend for first semester. HIST 1310/1320 not recommended for first semester.

### 2011 Catalog

<table>
<thead>
<tr>
<th>Freshman Fall Semester</th>
<th>Freshman Spring Semester</th>
<th>Sophomore Fall Semester</th>
<th>Sophomore Spring Semester</th>
<th>Junior Fall Semester</th>
<th>Junior Spring Semester</th>
<th>Senior Fall Semester</th>
<th>Senior Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 hours of core courses.</td>
<td>7 hours of core courses.</td>
<td>6 hours of core courses.</td>
<td>3 hours of core courses.</td>
<td>3 hours of core courses.</td>
<td>3 hours of core courses.</td>
<td>3 hours of core courses.</td>
<td>1 advanced hour of electives (may be different if minor is not biochemistry)</td>
</tr>
</tbody>
</table>

**Course Examples:**
- BIO 1330 (F,S)
- BIO 1331 (F,S)
- BIO 1130 (F,S)
- BIO 1131 (F,S)
- BIO 2450 (F,S)
- BIO 2400 (F,S)
- CHEM 1341 (F,S,S1)
- CHEM 1342 (F,S,S2)
- CHEM 2341 (F,S,S1)
- CHEM 2342 (F,S,S2)
- CHEM 2375 (F)
- CHEM 326 (F,S,S2)
- CHEM 3375 (F)
- CHEM 3276

**Additional Notes:**
- 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 3511, 4305, 4402, 4403, 4408

**Check course prerequisites:**
- BIO 4441 (S)
- BIO 4447 (S) (Check chemistry prerequisites)

**4 hours advanced biology electives:**
- BIO 4416 (F,S,S2)

**3 hours from:**
- CHEM 4360 (F)
- CHEM 4385 (S)

**12 hours from:**
- BIO 3442 (F), 4426 (S), 4445 (F), 4446 (S), 4447 (S)

Note: BIO 4447 cannot count for physiology and advanced microbiology. Only counts for one requirement.

Check course prerequisites.