### BS – Microbiology (SC-BS/MICR)

**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.

**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

**Required WI courses:** BIO 4416

Additional WI courses: BIO 3200, 3442, 4126, 4166, 4326, 4431, 4441, 4446, 4447, 4448

**Core courses must be completed:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>MATH 2321</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH 2322</td>
<td>Calculus II</td>
</tr>
</tbody>
</table>

**MICR required course:** MATH 2321 or 2471

**Arrows with dash lines are recommended prerequisites:**

- BIO 1330 (F,S,Su) & BIO 1330 (F,S,Su)
- CHEM 1341 (F,S,Su) & CHEM 1141 (F,S,Su)
- CHEM 2341 (F,S,Su) & CHEM 2141 (F,S,Su)

**3-4 hours advanced biology electives, chosen in consultation with an academic advisor.**

**11-12 advanced microbiology electives from:**

- BIO 1342 (F,S), BIO 3442 (F,S)
- BIO 4342 (F,S), BIO 4342 (F,S)
- BIO 4366/4166 (F,S)

**Also approved:**

- BIO 3351, BIO 4305, BIO 4402, BIO 4403, BIO 4408

**Notes:**
1. Cannot apply to advanced biology electives: BIO 3351, 4305, 4402, 4403, 4408
2. BIO 4299 requires faculty and departmental approval to count towards advanced electives and must be taken twice.
3. Students may apply only one course from [BIO 3421 or BIO 4299] towards advanced electives and must be taken twice.
4. All approved Adv. Physiology Courses can be used to satisfy the physiology requirement or the advanced biology electives requirement, but not both.
5. Extra advanced or non-advanced electives may be required to meet graduation requirements (check with advisor).
6. Always check course prerequisites.

**2023 Catalog year: College of Science and Engineering**