BACHELOR OF SCIENCE (B.S.) MAJOR IN MICROBIOLOGY (PRE-DENTAL CONCENTRATION)

Minimum required: 120-125 semester credit hours

General Requirements

1. The general education core curriculum courses are listed in the degree plan below along with the statewide component code number. See the General Education Core Curriculum (http://mycatalog.txstate.edu/undergraduate/general-education-core-curriculum) section of this catalog for the Texas State requirements and options in the core curriculum, including Honors courses.

2. Majors must complete a minimum of 36 advanced hours (3000 or 4000 level courses).

3. Majors must select a minor from the approved list of Undergraduate Minors (http://www.mycatalog.txstate.edu/undergraduate/minors). The recommended minor is Chemistry or Biochemistry. Minor and electives should be chosen in consultation with the academic advisor.

4. The minimum number of hours required for this degree program is 120. The number of elective hours a student will complete depends on the number of hours a student may need to achieve the required 120 total or 36 advanced hours.

5. Nine semester credit hours must be writing intensive (WI).

6. If two years of the same foreign language were taken in high school, then no additional language hours will be required. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Course Requirements

<table>
<thead>
<tr>
<th>Freshman</th>
<th>First Semester Hours</th>
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<tbody>
<tr>
<td>BIO 1330 (Life &amp; Physical Sciences Component Code 030)</td>
<td>3</td>
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<tr>
<td>BIO 1130 (Life &amp; Physical Sciences Component Code 030)</td>
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<tr>
<td>CHEM 1141</td>
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<td>CHEM 1341</td>
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<tr>
<td>US 1100</td>
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<td>ENG 1310 (Communication Component Code 010)</td>
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<tr>
<td>POSI 2310 (Government/Political Science Component Code 070)</td>
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<tr>
<td>Second Semester Hours</td>
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<tr>
<td>3 BIO 1331 (Life &amp; Physical Sciences Component Code 030)</td>
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<tr>
<td>1 BIO 1131 (Life &amp; Physical Sciences Component Code 030)</td>
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<tr>
<td>CHEM 2341</td>
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</tr>
<tr>
<td>Mathematics Component Code 020</td>
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<tr>
<td>HIST 1320 (American History Component Code 060)</td>
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<td>Select one of the following:</td>
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<tr>
<td>(Creative Arts Component Code 050)</td>
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<tr>
<td>ART 2313</td>
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<tr>
<td>DAN 2313</td>
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<tr>
<td>MU 2313</td>
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<td>TH 2313</td>
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<tr>
<th>Sophomore</th>
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<tr>
<td>BIO 2450</td>
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<td>CHEM 2141</td>
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<tr>
<td>CHEM 2341</td>
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<tr>
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<tr>
<td>HIST 1320 (American History Component Code 060)</td>
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</tr>
<tr>
<td>Select one of the following:</td>
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<tr>
<td>(Creative Arts Component Code 050)</td>
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<tr>
<td>ART 2313</td>
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<td>DAN 2313</td>
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<th>Junior</th>
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<tr>
<td>BIO Advanced Elective 2</td>
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<tr>
<td>PHYS 1315</td>
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<tr>
<td>PHYS 1115</td>
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<tr>
<td>PHIL 1320 (Language, Philosophy &amp; Culture Component Code 040)</td>
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<td>BIOM 3421</td>
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<td>Minor/Advanced Electives 5</td>
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<td>PSY 1300 (Social &amp; Behavioral Sciences Component Code 080)</td>
<td>3 Minor/Advanced Electives 4</td>
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<td>English Literature 5</td>
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<td>Electives</td>
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Total Hours: 120-125

1. Mathematics requirements may be satisfied by taking MATH 2321 and MATH 2328, or MATH 2471 and MATH 2328.

2. Fifteen hours of advanced BIO electives are required of which 11-12 house must be chosen from: BIO 3430 (fall), BIO 3442, BIO 4326/BIO 4126, BIO 4350R (spring), BIO 4447 (fall), BIO 4448 (spring), BIO 4480 (fall), or BIO 4413 (fall) Junior year - 2nd Semester.