### BS – Biochemistry (with ACS certification)

#### (SC-B/CBM/ACS)

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

<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>BIO 1330 (F,S,Su) &amp; BIO 1130 (F,S,Su) Functional Biology TCCNS: BIOL 1106+1106 or 1406</td>
<td>CHEM 1341 (F,S,Su) &amp; CHEM 1141 (F,S,Su) General Chemistry I TCCNS: CHEM 1311+1111 or 1411</td>
<td>PHYS 1430 (F,S) Mechanics TCCNS: PHYS 2425/2325+2125</td>
<td>PHYS 2425 (F,S) Electricity &amp; Magnetism TCCNS: PHYS 2426/2326+2126</td>
<td>BIO 2450 (F,S) Genetics TCCNS: BIO 2416 or 2416+2116</td>
<td>BIO 2400 (F,S,Su) Microbiology TCCNS: BIO 2421</td>
<td>Elective and/or Advanced Elective Coursework (as needed, see advisor)</td>
<td>CHEM Advanced Elective</td>
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<tr>
<td>MATH 2471 (F,S,Su) Calculus I TCCNS: MATH 2413</td>
<td>CHEM 1342 (F,S,Su) &amp; CHEM 1142 (F,S,Su) General Chemistry II TCCNS: CHEM 1312+1112 or 1412</td>
<td>BIO 1331 (F,S,Su) &amp; BIO 1131 (F,S) Organismal Biology TCCNS: BIOL 1307+1107 or 1407</td>
<td>CHEM 3390 (F) Physical Chemistry of Biochemistry</td>
<td>BIO 2450 (F,S) Genetics TCCNS: BIO 2416 or 2416+2116</td>
<td>BIO 2400 (F,S,Su) Microbiology TCCNS: BIO 2421</td>
<td>Elective and/or Advanced Elective Coursework (as needed, see advisor)</td>
<td>CHEM Advanced Elective</td>
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<tr>
<td>BIO 1331 (F,S,Su) &amp; BIO 1131 (F,S,Su) Functional Biology TCCNS: BIOL 1106+1106 or 1406</td>
<td>CHEM 1341 (F,S,Su) &amp; CHEM 1141 (F,S,Su) General Chemistry I TCCNS: CHEM 1311+1111 or 1411</td>
<td>PHYS 1430 (F,S) Mechanics TCCNS: PHYS 2425/2325+2125</td>
<td>PHYS 2425 (F,S) Electricity &amp; Magnetism TCCNS: PHYS 2426/2326+2126</td>
<td>CHEM 3375 (F) Principles of Biochemistry</td>
<td>CHEM 3380 (S) Analytical Biochemistry</td>
<td>Required WI courses: CHEM 3381, 4481, 4382</td>
<td>CHEM Advanced Elective</td>
</tr>
<tr>
<td>BIO 1330 (F,S,Su) &amp; BIO 1130 (F,S,Su) Functional Biology TCCNS: BIOL 1106+1106 or 1406</td>
<td>CHEM 1342 (F,S,Su) &amp; CHEM 1142 (F,S,Su) General Chemistry II TCCNS: CHEM 1312+1112 or 1412</td>
<td>CHEM 2341 (F,S,Su) &amp; CHEM 2141 (F,S,Su) Organismal Biology TCCNS: CHEM 2323+2123 or 2423</td>
<td>CHEM 2342 (F,S,Su) &amp; CHEM 2142 (F,S,Su) Organismal Chemistry II TCCNS: CHEM 2325+2125 or 2425</td>
<td>CHEM 3381 (S) Biochemistry Techniques</td>
<td>CHEM 4481 (F) Advanced Biochem Lab I</td>
<td>CHEM 4485 (F) Advanced Biochem Research</td>
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</tbody>
</table>

**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
  - S: Spring

**Core courses must be completed:**
- 6 credits Core 010
- 3 credits Core 050
- 3 credits Core 070
- 6 credits Core 090
- 6 credits Core 100
- 6 credits Core 101
- 6 credits Core 110
- 6 credits Core 130
- 6 credits Core 140
- 6 credits Core 150
- 6 credits Core 160
- 6 credits Core 170
- 6 credits Core 180
- 6 credits Core 190
- 6 credits Core 200
- 6 credits Core 210
- 6 credits Core 220
- 6 credits Core 230
- 6 credits Core 240
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- 6 credits Core 530
- 6 credits Core 540
- 6 credits Core 550
- 6 credits Core 560
- 6 credits Core 570
- 6 credits Core 580
- 6 credits Core 590
- 6 credits Core 600
- 6 credits Core 610
- 6 credits Core 620
- 6 credits Core 630
- 6 credits Core 640
- 6 credits Core 650
- 6 credits Core 660
- 6 credits Core 670
- 6 credits Core 680
- 6 credits Core 690

See catalog for options: http://mycatalog.txstate.edu/undergraduate/general-education-core-curriculum/

US 1100 may be required for some students. Consult with an advisor regarding course choices.