BS - Biology with Biochemistry minor – PRE-DENT  
(SC-BS/BIO/BCHM/PDBI)  
2021 Catalog year: College of Science and Engineering

<table>
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<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>
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| BIO 1330 (F,S,Su) & BIO 1130 (F,S,Su)  
Functional Biology  
TCCNS: BIOL 1306+1106 or 1406 | BIO 1331 (F,S) & BIO 1131 (F,S)  
Organizational Biology  
TCCNS: BIOL 1507+1107 or 1407 | BIO 2450 (F,S,Su)  
Microbiology  
TCCNS: BIOL 2421 | BIO 4416 (F,S)  
General Ecology | PHYS 1315 (F,S,Su) & PHYS 1115 (F,S,Su)  
General Physics I  
TCCNS: PHYS 1301+1101/1401 (also allow PHYS 1430) | PHYS 1325 (F,S,Su) & PHYS 1125 (F,S,Su)  
General Physics II  
TCCNS: PHYS 1302+1102/1402 (also allow PHYS 2425) | Extra advanced or non-advanced electives may be required to meet graduation requirements.  
(check with advisor) |
| CHEM 1341 (F,S,Su)  
General Chemistry  
TCCNS: CHEM 1351+1441 | CHEM 1342 (F,S,Su) & CHEM 1142 (F,S,Su)  
General Chemistry II  
TCCNS: CHEM 1352+1441 | CHEM 2341 (F,S,Su)  
Organic Chemistry I  
TCCNS: CHEM 2323+2123 or 2423 | CHEM 2342 (F,S,Su)  
Organic Chemistry II  
TCCNS: CHEM 2325+2125 or 2425 | CHEM 4375 (F,S,Su)  
Biochemistry | CHEM 3276 (F,S)  
Experimental Biochem | BIO 4301 (F,S)  
Evolution |
| BIO 2400 (F,S)  
Microbiology  
TCCNS: BIOL 2421 | BIO 3421 (S)  
Vertebrate Physiology  
OR  
BIO 3426 (F)  
Human Physiology | 15 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.  
DO NOT COUNT: BIO 3351, 4305, 4402, 4403, 4408  
Check course prerequisites. |

**NOTE:** Students in the pre-dental concentration must complete BIO 3421, MATH 2328, PHIL 1320 and PSY 1300.

**Required WI courses:** BIO 4416

**Additional WI courses:** BIO 5200, 3308, 3442, 3460, 4126, 4166, 4126, 4376, 4420, 4423, 4431, 4412, 4442, 4446, 4447, 4448, 4454, 4464, 4470, 4472

**Core courses must be completed:**
- Communication Component Code 010 (6 cr)
- Mathematics Component Code 020 (3 cr)
- Life & Physical Science Component Code 030 (6 cr)
- Language, Philosophy, and Culture Component Code 040 (3 cr)
- Creative Arts Component Code 050 (3 cr)
- American History Component Code 060 (6 cr)
- Government/Political Science Component Code 070 (6 cr)
- Social and Behavioral Sciences Component Code 080 (3 cr)
- Component Area Option Codes 090, 091, 092, 093, and 094 (6 cr)

US 1100 may be required for some students. Some majors require specific courses to be chosen from a component area. Consult with an advisor to determine the most expedient way to complete core and major-specific requirements.

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.

**Key:**
- Arrows indicate prerequisites.
- Arrows with dot-dash lines indicate co-requisites.
- Arrows with dashed 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 5200, 3308, 3442, 3460, 4126, 4166, 4126, 4376, 4420, 4423, 4431, 4412, 4442, 4446, 4447, 4448, 4454, 4464, 4470, 4472

**Components:**
- **Component Area Option Codes 090, 091, 092, 093, and 094 (6 cr)**
- **Social and Behavioral Sciences Component Code 080 (3 cr)**
- **Government/Political Science Component Code 070 (6 cr)**
- **Creative Arts Component Code 050 (3 cr)**
- **American History Component Code 060 (6 cr)**
- **Life & Physical Science Component Code 030 (6 cr)**
- **Language, Philosophy, and Culture Component Code 040 (3 cr)**
- **Mathematics Component Code 020 (3 cr)**
- **Communication Component Code 010 (6 cr)**
- **Component Area Option Codes 090, 091, 092, 093, and 094 (6 cr)**

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