

Minimum required: 120 semester credit hours

General Requirements

1. This Bachelor of Science (B.S.) degree with a major in Biochemistry will be certified as approved by the American Chemical Society (ACS). The ACS approved program provides external validation for the curriculum, faculty and resources in the Department of Chemistry and Biochemistry that will certify to potential employers that the department and curriculum has met certain industry standards, and thus should increase the student's marketable skills.
2. 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.
3. Students must complete a minimum of 36 advanced hours (3000 or 4000 level courses).
4. Students must select a minor from the approved list of Undergraduate Minors (<http://www.mycatalog.txstate.edu/undergraduate/minors/>). The recommended minor is Biology. Minor and electives should be chosen in consultation with the academic advisor.
5. 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.
6. Nine semester credit hours must be writing intensive (WI).
7. 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.
8. Students entering Texas State with fewer than 16 credit hours completed after high school graduation will be required to take US 1100. All others will be exempt from taking this course. Students may be required to earn an additional elective to reach the 120 minimum total credit hour requirement for the awarding of a degree.
9. Elective credit for CHEM 3190, CHEM 3290, and CHEM 4299 is limited to a total of 4 credit hours.

Course Requirements

| Freshman | | | |
|--|---|---|---|
| First Semester Hours | | Second Semester Hours | |
| CHEM 1141 | 1 | CHEM 1142 | 1 |
| CHEM 1341 (Life and Physical Sciences Component Code 030) | 3 | CHEM 1342 (Life and Physical Sciences Component Code 030) | 3 |
| BIO 1130 | 1 | BIO 1131 | 1 |
| BIO 1330 | 3 | BIO 1331 | 3 |
| US 1100 | 1 | MATH 2471 (Mathematics Component Code 020) | 4 |
| ENG 1310 (Communication Component Code 010 [TCCN ENGL 1301]) | 3 | Communication Component Code 010 | 3 |

| Language, Philosophy, and Culture Component Code 040 | 3 | | |
|--|----|--|----|
| | 15 | | 15 |
| First Semester Hours | | Second Semester Hours | |
| CHEM 2141 | 1 | CHEM 2142 | 1 |
| CHEM 2341 | 3 | CHEM 2342 | 3 |
| MATH 2472 (Component Area Option Code 090/092) | 4 | BIO 2450 | 4 |
| PHYS 1430 | 4 | PHYS 2425 (Component Area Option Code 090/093) | 4 |
| Elective | 2 | Social and Behavioral Sciences Component Code 080 | 3 |
| | 14 | | 15 |
| First Semester Hours | | Second Semester Hours | |
| CHEM 3375 | 3 | CHEM 3380 | 3 |
| CHEM 3390 | 3 | CHEM 3381 | 3 |
| BIO 2400 | 4 | POSI 2320 (Government/Political Science Component Code 070 [TCCN GOVT 2305]) | 3 |
| POSI 2310 (Government/Political Science Component Code 070 [TCCN GOVT 2306]) | 3 | American History Component Code 060 | 3 |
| American History Component Code 060 | 3 | Advanced Elective | 3 |
| | 16 | | 15 |
| First Semester Hours | | Second Semester Hours | |
| CHEM 3341 | 3 | CHEM Advanced Elective ¹ | 2 |
| CHEM 4360 | 3 | CHEM 4385 | 3 |
| CHEM 4481 | 4 | CHEM 4382 | 3 |
| Minor Advanced Elective | 3 | Creative Arts Component Code 050 [HUMA 1315] | 3 |
| Minor Advanced Elective | 3 | Minor Advanced Elective | 3 |
| | 16 | | 14 |

Total Hours: 120

¹ Certification of the degree as approved by the American Chemical Society requires 2 credit hours of a combination of CHEM 3190, CHEM 3290, or CHEM 4299.