# BIOCHEMISTRY MAJOR (BS TRADITIONAL)

Biochemistry majors focus on the chemistry of living systems. The major includes coursework in key fundamental areas of biology and chemistry including molecular biology, cellular biology, genetics, analytical chemistry, organic chemistry, physical chemistry, and a full year sequence of biochemistry. The major pushes students to develop their critical thinking, scientific reasoning, and laboratory skills in a true interdisciplinary way. Students are required to participate in an on-campus research experience as a part of this program.

## General Education Requirements

All degree seeking undergraduate students must complete the general education (https://catalog.csp.edu/undergraduate/academic-information/general-education-requirements/) requirements.

## Degree Requirements

Bachelor of Science (https://catalog.csp.edu/undergraduate/academic-information/graduation-requirements/#bs) degree consists of a major of typically 30 to 60 credits, general education courses, upper-level requirements, and elective courses totaling a minimum of 120 credits.

| Code | Title | Credits |
|---|---|---|
| **Prerequisites from General Education** | | |
| BIO 120 | General Biology I (4) | |
| MAT 135 | Calculus I (4) | |
| **Required** | | |
| BIO 130 | General Biology II | 4 |
| CHE 115 | General Chemistry I | 4 |
| CHE 116 | General Chemistry II | 4 |
| CHE 221 | Organic Chemistry I | 4 |
| CHE 222 | Organic Chemistry II | 4 |
| CHE 328 | Biochemistry I | 4 |
| CHE 329 | Biochemistry II | 4 |
| MAT 146 | Calculus II | 4 |
| PHS 221 | General Physics I | 4 |
| PHS 222 | General Physics II | 4 |
| CHE 326 | Analytical Chemistry I | 4 |
| CHE 341 | Thermodynamics | 4 |
| BIO 330 | Cell Biology | 4 |
| BIO 210 | Genetics | 4 |
| SCI 453 | Science Senior Capstone | 2 |
| Please choose from one of these courses: | | 4 |
| SCI 435 | Research and Techniques (4) | |
| SCI 455 | Research in Science (4) | |
| **Total Credits** | | **62** |