

B.S. IN CHEMISTRY

This is an American Chemical Society certified major.

| Code | Title | Credits |
|--|--|----------------|
| Major in Chemistry (B.S.) | | |
| CHE 113 & CHE 113D | General Chemistry I and General Chemistry I Lab | 4 |
| CHE 200 | Laboratory Safety and Chemical Hygiene | 1 |
| CHE 214 & CHE 215 | General Chemistry II and General Chemistry II Lab | 4 |
| CHE 224 & CHE 225 | Organic Chemistry I and Organic Chemistry I Lab | 4 |
| CHE 226 & CHE 227 | Organic Chemistry II and Organic Chemistry II Lab | 4 |
| CHE 312 & CHE 313 | Quantitative Analysis and Quantitative Analysis Lab | 4 |
| CHE 320 | Instrumental Analysis | 3 |
| CHE 344 & CHE 345 | Thermodynamics, Kinetics, and Statistical Mechanics and Thermodynamics, Kinetics, and Statistical Mechanics Lab | 4 |
| CHE 348 | Quantum Chemistry and Spectroscopy | 3 |
| CHE 364 | Inorganic Chemistry | 3 |
| CHE 388 & CHE 389 | Biochemistry I and Biochemistry I Lab ¹ | 4 |
| CHE 395 | Chemistry Seminar: Research and Professional Development | 1 |
| CHE 396 & CHE 397 | Biochemistry II and Biochemistry II Lab | 4 |
| CHE 494 | Chemistry Seminar: Research Presentation | 1 |
| Choose one of the following research courses: | | 0-2 |
| CHE 490 | Chemistry Seminar: Research ⁴ | |
| CHE 492 | Chemistry Seminar: Summer Research ⁴ | |
| MAT 124M | Calculus 1 ² | 4 |
| MAT 125 | Calculus 2 | 4 |
| Choose one of the following course sequences: ³ | | 8 |
| PHY 202 & PHY 202D & PHY 206 & PHY 207 | Introductory Physics I and Introductory Physics I Lab and Introductory Physics II and Introductory Physics II Lab | |
| or | | |
| PHY 292 & PHY 292D & PHY 296 & PHY 297 | General Physics I and General Physics I Lab and General Physics II and General Physics II Lab | |
| Code | Title | Credits |
| Major | | 60-62 |
| General Education * | | 40-48 |

B.S. in Chemistry 2

Electives

14-20

Total Credits

122

- ¹ The BIO 120/BIO 120D or BIO 124/BIO 124D prerequisite for this course may be waived for B.S. Chemistry majors.
 - ² Placement at MAT 124M on the Math and Computer Science department placement exam; MAT 121M, concurrent enrollment in MAT 122, or equivalent high school or college course(s) is a prerequisite for this course.
 - ³ Students planning to attend graduate school are strongly encouraged to take PHY 292/PHY 292D and PHY 296/PHY 297.
 - ⁴ Consent of instructor is a prerequisite for this course.
- * Courses whose number is followed by a letter fulfill a General Education requirement. Students may not declare a B.A. in Chemistry and a B.S. in Chemistry. Students may not declare a B.S. in Chemistry and a Minor in Chemistry.