

Chemistry (B.S.)



UNIVERSITY of WASHINGTON | BOTHELL
SCHOOL OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

[Website](#)

- This is a suggested schedule of courses based on degree requirements. The actual degree plan may differ depending on the course of study selected, the number of starting credits, or the starting admission point.
- This guide is not a substitute for academic advising. Contact your academic advisor with questions about scheduling, unique interests, or degree requirements.
- Most Chemistry applicants are admitted. Admission is guaranteed if you have a minimum grade of 2.0 in all prerequisite courses.

| Year 1 | Autumn | Winter | Spring |
|--|---|---|---|
| | ◊ STMATH 124: Calculus I | ◊ STMATH 125: Calculus II | ◊ STMATH 126: Calculus III |
| | ◊ BCHEM 143+144: Gen Chem I + Lab | ◊ BCHEM 153+154: Gen Chem II + Lab | ◊ BCHEM 163+164: Genl Chem III + Lab |
| | General Education Course | General Education Course | General Education Course |
| <i>General Chemistry III (BCHEM 163 + 164) is a prerequisite for Organic Chemistry I (BCHEM 237).</i> | | | |
| Year 2 | Autumn | Winter | Spring |
| | ✓ B PHYS 121: Mechanics | ✓ B PHYS 122: Electromagnetism | ✓ B PHYS 123: Waves |
| | ✓ BCHEM 237: Organic Chem I (no lab) | ✓ BCHEM 238: Organic Chem II | ✓ BCHEM 239: Organic Chem III |
| | General Education Course | ✓ BCHEM 241: Organic Chemistry Lab 1 | ✓ BCHEM 242: Organic Chemistry Lab 2 |
| | — | General Education Course | General Education Course |
| <i>Calculus I and II (STMATH 124 and 125) are prerequisites for Calculus-based Physics I and II (BPHYS 121 and 122), respectively. Organic Chemistry III and its lab (BCHEM 239 + 242) are prerequisites for most 300- and 400-level BCHEM coursework.</i> | | | |
| Year 3 | Autumn | Winter | Spring |
| | ✓ B CHEM 316: Quantitative Analysis | B CHEM 294: Chemistry Seminar | B CHEM 313: Inorganic Chemistry II |
| | B CHEM 317: Quantitative Analysis Lab | ✓ B CHEM 312: Inorganic Chemistry I | B CHEM 495: Investigative Chemistry |
| | STMATH 207, 298, 224, or 341: Advanced Math Course | B CHEM 426: Instrumental Analysis | General Education Course |
| | General Education Course | General Education Course | General Elective (100+ level; 4+ credits) |
| <i>Calculus-based Physics III and Upper Division math are prerequisites for the Physical Chemistry sequence in senior year.</i> | | | |
| Year 4 | Autumn | Winter | Spring |
| | B CHEM 364: Biochemistry I | B CHEM 402: Physical Chemistry II | B CHEM 404: Physical Chemistry Lab |
| | ✓ B CHEM 401: Physical Chemistry I | Upper Division Chem Elective (300+ level) | Upper Division Chem Elective (300+ level) |
| | Upper Division Chem Elective (300+ level) | Upper Division Chem Elective (300+ level) | Upper Division STEM Elective (300+ level) |

♦ **Prerequisite:** Must be completed prior to applying for a major.

✓ Milestones: Courses and special requirements necessary to timely progress through and complete a major.

❖ May be fulfilled with Discovery Core

All classes are 5 credits unless followed by a parenthesis with a number, indicating the number of credits. Refer to the time schedule for up to date course offerings; including quarters, days and times. This Map is a suggested sequence of the current curriculum which may be altered to carry out the academic objectives of the University. The University specifically reserves the right to change the student's current map at any time within the student's period of study.