

Chemistry (B.S.)



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

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- 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. Please track your degree audit.
- This guide is not a substitute for academic advising or degree audit review (degree audit states all requirements for degree completion). Contact your academic advisor with questions about scheduling, unique interests, or degree requirements.
- Applicants who are generally competitive to Chemistry will have the following: 1. All prerequisites completed or 1-2 in progress by time of review, 2. A 3.0 grade or higher in each prerequisite, 3. Cumulative GPA of 3.0 or higher, 4. A positive grade trend with few to no repeats. However, students who satisfactorily meet prerequisites are typically, not always, offered admissions into chemistry.

	Autumn	Winter	Spring
Year 1	◆ STMATH 124 - Calculus I	◆ STMATH 125 - Calculus II	◆ STMATH 126 Calculus III
	◆ B CHEM 143 + 144 General Chemistry I + Lab	◆ B CHEM 153 + 154 General Chemistry II + Lab	◆ B CHEM 163 + 164 General Chemistry III + Lab
	❖ VLPA	B WRIT 134 Composition	B WRIT 135 Research Writing
<i>General Chemistry III (BCHEM 163 + 164) is a prerequisite for Organic Chemistry I (BCHEM 237).</i>			
Year 2	✓ PHYS 121 - Mechanics or algebra-based BPHYS 114+117	✓ PHYS 122 – Electromagnetism or algebra-based BPHYS 115+118	✓ PHYS 123 – Waves or algebra-based BPHYS 116+119
	◆ B CHEM 237 Organic Chemistry Lecture I (4)	B CHEM 238 Organic Chemistry Lecture II	✓ B CHEM 239 Organic Chemistry Lecture III
	✓ STMATH 307/308/324/341 (see degree audit options)	B CHEM 241 Organic Chemistry Lab 1	B CHEM 242 Organic Chemistry Lab 2
		B CHEM 294 Chemistry Seminar (1)	VLPA (recommended over summer)
<i>Calculus I and II (STMATH 124 and 125) are prerequisites for Calculus-based Physics I and II (BPHYS 121 and 122), respectively. Algebra-based physics is also allowed instead of calculus-based physics and includes: BPHYS 114+117, 115+118, 116+119. Organic Chemistry III and its lab (BCHEM 239 + 242) are prerequisites for most 300- and 400-level BCHEM coursework.</i>			
Year 3	✓ B CHEM 315 Quantitative Environmental Analysis + Lab	B CHEM 426 Instrumental Analysis + Lab	BST 301 Scientific Writing
	B CHEM 401 Physical Chemistry I (4)	B CHEM 402 Physical Chemistry II (4)	B CHEM 404 Physical Chemistry Lab (4)
	I & S (also a DIVERSITY class)	I & S	Upper Division Chemistry Elective
<i>Calculus or Algebra-based Physics III and Upper Division math are prerequisites for the Physical Chemistry sequence in senior year.</i>			
Year 4	B CHEM 364 Biochemistry I	B CHEM 312 Inorganic Chemistry I	B CHEM 313 Inorganic Chemistry II
	B CHEM 495 Investigative Chemistry I (3)	Upper Division Chemistry Elective	Upper Division STEM Elective
	Upper Division Chemistry Elective	VLPA	Upper Division Chemistry Elective (to reach 16 credits of total electives required)
	I & S	free electives to reach 180 credits	free electives to reach 180 credits

◆ **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 course if Discovery Core is VLPA

All classes are 5 credits unless followed by a parenthesis with a number, indicating the number of credits.

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.

Last updated: 1/16/21

Refer to the time schedule for up to date course offerings; including quarters, days and times