

Chemistry Major

Total Major hours: 52
Suggested hours per semester: 16

Major Academic Plan (MAP) for Catalog Year 2020-2021

The catalog is the final authority on CATC and major requirements; this is intended as a tool for planning purposes. Student course sequencing may vary depending on course offerings and other variables.

<p>Fall Semester 1 CHEM 231: General Chemistry I* or CHEM 341: Organic Chem. II* MATH 231: Calculus I¹</p> <p><i>CORE 101: First Year Seminar</i> <i>First-Year CATC options-</i></p> <ul style="list-style-type: none"> ▪ AHS 101: Wellness (2) ▪ COMM 101: Oral Comm (2) ▪ ENGW 103: First-Year Writing ▪ Language Core Competency or Thematic Core Course 	<p>Spring Semester 1 CHEM 232: General Chemistry II* or CHEM 342: Organic Chem. II* MATH 232: Calculus II*</p> <p><i>First-Year CATC Options</i> <i>Language Core Competency</i> <i>BITH 211/ARCH 211: Old Testament</i></p>	<p>Summer 1</p> <p>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research</p>
<p>Fall Semester 2 CHEM 341: Organic Chemistry I*, if not complete CHEM 294: Chem. Colloquium (1) PHYS 231: Introductory Physics I^{1*}</p> <p><i>Thematic Core or Core Competency Course</i> <i>BITH 213/ARCH 213: New Testament</i></p>	<p>Spring Semester 2 CHEM 342: Organic Chemistry II*, if not complete CHEM 294: Chem. Colloquium (1) PHYS 232: Intro. Physics II*</p> <p><i>Thematic Core Course</i> <i>BITH 315: Christian Thought*</i></p>	<p>Summer 2</p> <p>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research</p>
<p>Fall Semester 3 CHEM 355: Intro. to Analytical Chem. (2)* CHEM 371: Physical Chem. I*</p> <p><i>Advanced Integrative Seminar?*</i></p>	<p>Spring Semester 3 CHEM 336: Inorganic Chemistry* CHEM 455: Adv. Analytical I (2)^{5, 2*} and/or CHEM elective (2 or 4)³</p> <p><i>Advanced Integrative Seminar?*</i></p>	<p>Summer 3</p> <p>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), internship, summer research</p>
<p>Fall Semester 4</p> <p>CHEM 494: Chemistry in Context (2)* CHEM 457: Adv. Analytical II (2)^{F, 2*} and/or CHEM elective (2)³</p> <p><i>Thematic Core Course (4-8)</i> <i>Complete CATC Coursework</i></p>	<p>Spring Semester 4</p> <p>CHEM elective³, if not complete</p> <p><i>Complete CATC Coursework</i></p>	<p>Summer 4</p>

Notes or Special Guidance for Majors:

*Course has prerequisite

^F Fall only course

^S Spring only course

[#] Offered every other year

¹Classes that meet CATC tags are MATH 231 (AAQR) and PHYS 231 (SP).

²Two upper-level elective courses are required, one of which must be a lab course. Lab courses have the footnote.

³Chemistry Electives include: 372*, 475^{2*}, 461*, 463^{2*}, 485^{2#*}, 436* and 437*. Either CHEM 455 or 457 (Adv. Analytical) is required and does not count as an elective (only pre-requisite for both is CHEM 355); the other course can be taken as an elective. A total of 4 hours (two courses) are required for Chemistry electives, one of which must be a lab course.