

Chemistry Major

Total Major hours: 52
Suggested hours per semester: 16

Major Academic Plan (MAP) for Catalog Year 2022-2023

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.

Fall Semester 1 CHEM 231: General Chemistry I ^F or CHEM 341: Organic Chem. I ^{*,F} MATH 231/232: Calculus I ¹ , II [*] <i>CORE 101: First Year Seminar</i> <i>First-Year CATC options-</i> <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 	Spring Semester 1 CHEM 232: General Chem. II ^{*,S} or CHEM 342: Organic Chem. II ^{*,S} MATH 231/232: Calculus I ¹ , II [*] <i>First-Year CATC Options</i> <i>Language Core Competency</i> BITH 211/ARCH 211: Old Testament	Summer 1 <i>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), Wheaton in the Black Hills, non-major internship, summer research</i>
Fall Semester 2 CHEM 341: Organic Chemistry I ^{*,F} , if not complete CHEM 294: Chem. Colloquium (1) ² PHYS 231: Intro. Physics I ^{1*,F} <i>Thematic Core or Core Competency Course</i> BITH 213/ARCH 213: New Testament	Spring Semester 2 CHEM 342: Organic Chemistry II ^{*,S} , if not complete CHEM 294: Chem. Colloquium (1) ² PHYS 232: Intro. Physics II ^{*,S} <i>Thematic Core Course</i> BITH 315: Christian Thought*	Summer 2 <i>Consider study, internship or research options.</i>
Fall Semester 3 CHEM 355: Intro. to Analytical Chem. (2) ^{*,F} CHEM 371: Physical Chem. I ^{*,F} <i>Advanced Integrative Seminar?*</i>	Spring Semester 3 CHEM 336: Inorganic Chemistry ^{*,S} CHEM 455: Adv. Analytical I (2) ^{*,S} and/or CHEM elective (2 or 4) ³ <i>Advanced Integrative Seminar?*</i>	Summer 3 <i>Consider study, internship or research options.</i>
Fall Semester 4 CHEM 494: Chemistry in Context (2) ^{*,F} CHEM 457: Adv. Analytical II (2) ^{*,F} and/or CHEM elective (2) ³ <i>Thematic Core Course (4-8)</i> <i>Complete CATC Coursework</i>	Spring Semester 4 CHEM elective ³ , if not complete <i>Complete CATC Coursework</i>	Summer 4

Notes or Special Guidance for Majors:

*Course has prerequisite

^F Fall only course

^S Spring only course

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

² CHEM 294 has two distinct courses that should be taken in order: first the fall course, followed by the spring course.

³ Either CHEM 455 or 457 (Adv. Analytical I or II) is required (students choose which one). Additionally, two upper-level elective courses are required (4 or 6 combined hours), one of which must be a lab course (designated with an 'L' suffix). Chemistry electives include: 372^{*,S}, 436^{*,F}, 437^{*,F}, 455L^{*,S} or 457L^{*,F} (the one not already taken as a requirement), 461^{*,S}, 463L^{*,S}, 475L^{*,S}, 485L^{*,S}.