

Chemistry Major

Total Major hours: 52

Suggested hours per semester: 16-18

with a Biochemistry Concentration

Major Academic Plan (MAP) for Catalog Year 2025-2026

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	Spring Semester 1	Summer 1
CHEM 231: General Chemistry I ^F or CHEM 341: Organic Chem. I*,F	CHEM 232: General Chemistry II*,5 or CHEM 342: Organic Chem. II*,5	Consider study, internship or
MATH 235: Calculus I*1	MATH 235: Calculus I*, if not complete	research options – Wheaton In summer program, WIN
CORE 101: First Year Seminar CORE 131: H. H. Flourishing (1) First-Year CATC options- COMM 101: Oral Comm (2) ENGW 103: First-Year Writing Language Core Competency or Thematic Core Course	First-Year CATC options Language Core Competency BITH 211/ARCH 211: Old Testament	(HoneyRock), Wheaton in the Black Hills, non-major internship, summer research
Fall Semester 2	Spring Semester 2	Summer 2
CHEM 341: Organic Chemistry I*, if not complete CHEM 294: Chem. Colloquium (1) ² PHYS 221: General Physics I ^{1*,F} or 231: Introductory Physics I ^{1*,F}	CHEM 342: Organic Chemistry II*,5, if not complete CHEM 294: Chem. Colloquium (1) ² PHYS 222: General Physics II*,5 or 232: Introductory Physics II*,5	Consider study, internship or research options.
Core Competency Courses (4-8) BITH 213/ARCH 213: New Testament	BITH 315: Christian Thought*	
Fall Semester 3	Spring Semester 3	Summer 3
CHEM 355: Intro. to Analytical	CHEM 336: Inorganic Chemistry*,5	
Chem. (2)*, ^F CHEM 371: Physical Chem. I*, ^F	CHEM 461: Gen. Biochemistry*, ⁵ CHEM 455: Adv. Analytical I (2)* ^{5,3}	Consider study, internship or research options.
Thematic Core Course (4-8) Advanced Integrative Seminar?*	Thematic Core Course Advanced Integrative Seminar?*	
Fall Semester 4	Spring Semester 4	Summer 4
CHEM 494: Chemistry in Context (2)* CHEM 462: Adv. Biochemistry (2)*,F CHEM 457: Adv. Analytical II (2)*F,3 if 455 has not been taken yet	CHEM 463: Biochemistry Analysis (2)*,5 CHEM 455: Adv. Analytical I (2)*5,3 if neither 455 or 457 been taken yet	
Thematic Core Course (4-8) Complete CATC Coursework	Thematic Core Course Complete CATC Coursework	

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Notes or Special Guidance for Majors:

- * Course has prerequisite
- ^F Fall only course
- ^S Spring only course

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¹ Classes that meet CATC tags: MATH 231 (AAQR), 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

³A big difference between the Basic Major and the Biochemistry Emphasis major is one can get by with only one semester of calculus and take algebra-based physics (PHYS 221/2). Beyond that, there are no electives in the major, other than which one of the two Adv. Analytical courses is taken: CHEM 455 or CHEM 457.