

Chemistry Major

Total Major hours: 52

Suggested hours per semester: 16-18

with a Biochemistry Concentration

Major Academic Plan (MAP) for Catalog Year 2023-2024

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 232: General Chemistry II*,5 or	
CHEM 341: Organic Chem. I*,F	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	First-Year CATC options	(HoneyRock), Wheaton in the
First-Year CATC options-	Language Core Competency	Black Hills, non-major
■ COMM 101: Oral Comm (2)	BITH 211/ARCH 211: Old	internship, summer research
■ ENGW 103: First-Year Writing	Testament	μ,
 Language Core Competency or Thematic Core Course 		
Fall Semester 2	Spring Semester 2	Summer 2
CHEM 341: Organic Chemistry I*,F, if	CHEM 342: Organic Chemistry II*,5, if	
not complete	not complete	Consider study, internship or
CHEM 294: Chem. Colloquium (1) ²	CHEM 294: Chem. Colloquium (1) ²	research options.
PHYS 221: General Physics I ^{1*,F} or	PHYS 222: General Physics II*,5 or 232:	·
231: Introductory Physics I ^{1*,F}	Introductory Physics II*,S	
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*,S	
Chem. (2)*, ^F	CHEM 461: Gen. Biochemistry*,S	Consider study, internship or
CHEM 371: Physical Chem. I*,F	CHEM 455: Adv. Analytical I (2)*5,3	research options.
Thematic Core Course (4-8)	Thematic Core Course	
Advanced Integrative Seminar?*	Advanced Integrative Seminar?*	
Fall Semester 4	Spring Semester 4	Summer 4
CHEM 494: Chemistry in Context	CHEM 463: Biochemistry Analysis (2)*,S	
(2)*	CHEM 455: Adv. Analytical I (2)*5,3 if	
CHEM 462: Adv. Biochemistry (2)*,F	neither 455 or 457 been taken yet	
CHEM 457: Adv. Analytical II (2)*F,3 if		
455 has not been taken yet		
Thematic Core Course (4-8)	Thematic Core Course	
Complete CATC Coursework	Complete CATC Coursework	

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.