

## Chemistry Major

Total Major hours: 52  
Suggested hours per semester: 16

### 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.

<b>Fall Semester 1</b> CHEM 231: General Chemistry I <sup>F</sup> or CHEM 341: Organic Chem. I <sup>*,F</sup> MATH 235: Calculus I <sup>1</sup> or 236 II <sup>*</sup>  CORE 101: First Year Seminar CORE 131: H. H. Flourishing (1) First-Year CATC options- <ul style="list-style-type: none"> <li>COMM 101: Oral Comm (2)</li> <li>ENGW 103: First-Year Writing</li> <li>Language Core Competency or Thematic Core Course</li> </ul>	<b>Spring Semester 1</b> CHEM 232: General Chem. II <sup>*,S</sup> or CHEM 342: Organic Chem. II <sup>*,S</sup> MATH 236: Calculus II <sup>*</sup>  First-Year CATC Options Language Core Competency BITH 211/ARCH 211: Old Testament	<b>Summer 1</b>  <i>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), Wheaton in the Black Hills, non-major internship, summer research</i>
<b>Fall Semester 2</b> CHEM 341: Organic Chemistry I <sup>*,F</sup> , if not complete CHEM 294: Chem. Colloquium (1) <sup>2</sup> PHYS 231: Intro. Physics I <sup>1*,F</sup>  Thematic Core or Core Competency Course BITH 213/ARCH 213: New Testament	<b>Spring Semester 2</b> CHEM 342: Organic Chemistry II <sup>*,S</sup> , if not complete CHEM 294: Chem. Colloquium (1) <sup>2</sup> PHYS 232: Intro. Physics II <sup>*,S</sup>  Thematic Core Course BITH 315: Christian Thought <sup>*</sup>	<b>Summer 2</b>  <i>Consider study, internship or research options.</i>
<b>Fall Semester 3</b> CHEM 355: Intro. to Analytical Chem. (2) <sup>*,F</sup> CHEM 371: Physical Chem. I <sup>*,F</sup>  Advanced Integrative Seminar? <sup>*</sup>	<b>Spring Semester 3</b> CHEM 336: Inorganic Chemistry <sup>*,S</sup> CHEM 455: Adv. Analytical I (2) <sup>*,S</sup> and/or CHEM elective (2 or 4) <sup>3</sup>  Advanced Integrative Seminar? <sup>*</sup>	<b>Summer 3</b>  <i>Consider study, internship or research options.</i>
<b>Fall Semester 4</b>  CHEM 494: Chemistry in Context (2) <sup>*,F</sup> CHEM 457: Adv. Analytical II (2) <sup>*,F</sup> and/or CHEM elective (2) <sup>3</sup>  Thematic Core Course (4-8) Complete CATC Coursework	<b>Spring Semester 4</b>  CHEM elective <sup>3</sup> , if not complete  Complete CATC Coursework	<b>Summer 4</b>

#### Notes or Special Guidance for Majors:

\*Course has prerequisite

<sup>F</sup> Fall only course

<sup>5</sup> Spring only course

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

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

<sup>3</sup> 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<sup>\*,S</sup>, 436<sup>\*,F</sup>, 437<sup>\*,F</sup>, 455L<sup>\*,S</sup> or 457L<sup>\*,F</sup> (the one not already taken as a requirement), 461<sup>\*,S</sup>, 463L<sup>\*,S</sup>, 475L<sup>\*,S</sup>, 485L<sup>\*,S</sup>.