



## Chemistry Major with a Biochemistry Concentration

### Major Academic Plan (MAP) for Catalog Year 2026-2027

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><b>Fall Semester 1</b> CHEM 231: General Chemistry I<sup>F</sup> MATH 235: Calculus I*<sup>1</sup> BIOL 241: Organization of Life</p> <p>CORE 101: First Year Seminar CORE 131: H. H. Flourishing (1) First-Year CATC options-</p> <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>	<p><b>Spring Semester 1</b> CHEM 232: General Chemistry II*<sup>S</sup> MATH 235: Calculus I*, if not complete</p> <p>First-Year CATC options Language Core Competency BITH 211/ARCH 211: Old Testament</p>	<p><b>Summer 1</b></p> <p>Consider study abroad, internship or research options – Wheaton- In summer program, WIN (HoneyRock), Wheaton in the Black Hills, non-major internship, or summer research</p>
<p><b>Fall Semester 2</b> CHEM 341: Organic Chemistry I*<sup>F,2</sup> CHEM 294: Chem. Colloquium<sup>3</sup> PHYS 221: General Physics I<sup>1*F</sup> or 231: Introductory Physics I<sup>1*</sup></p> <p>Core Competency Courses (4-8) BITH 213/ARCH 213: New Testament</p>	<p><b>Spring Semester 2</b> CHEM 342: Organic Chemistry II*<sup>S</sup> CHEM 294: Chem. Colloquium<sup>3</sup> PHYS 231: Introductory Physics I*<sup>1</sup> if not complete BIOL elective</p> <p>BITH 315: Christian Thought*</p>	<p><b>Summer 2</b></p> <p>Consider study abroad, internship, or research options.</p>
<p><b>Fall Semester 3</b> CHEM 355: Intro. to Analytical Chemistry*<sup>F</sup> CHEM 461: Gen. Biochemistry*<sup>F</sup> BIOL elective, if not complete</p> <p>Thematic Core Course Advanced Integrative Seminar*</p>	<p><b>Spring Semester 3</b> CHEM 462: Adv. Biochemistry*<sup>S</sup> and/or CHEM 463: Biochemistry Analysis *<sup>S</sup> CHEM elective<sup>4</sup> Thematic Core Course</p>	<p><b>Summer 3</b></p> <p>Consider study abroad, internship, or research options.</p>
<p><b>Fall Semester 4</b></p> <p>CHEM 375: Biophysical Chem. I*<sup>F</sup></p> <p>CHEM elective Thematic Core Course Complete CATC Coursework</p>	<p><b>Spring Semester 4</b></p> <p>CHEM 462: Adv. Biochemistry*<sup>S</sup> and/or CHEM 463: Biochemistry Analysis*<sup>S</sup> if not complete</p> <p>CHEM 494: Chemistry in Context*</p> <p>CHEM/BIOL elective, if not complete</p> <p>Thematic Core Course Complete CATC Coursework</p>	<p><b>Summer 4</b></p>

**Notes or Special Guidance for Majors:**

\* Course has a prerequisite

<sup>F</sup> Fall only course

<sup>S</sup> Spring only course

<sup>1</sup> Classes that meet CATC tags: MATH 231 (AAQR), and PHYS 221 or 231 (SP)

<sup>2</sup> CHEM 341 may be taken during Fall Semester 1 by students who have AP credit for General Chemistry (i.e. CHEM 231 and CHEM 232)

<sup>3</sup> CHEM 294 has two distinct courses that should be taken in order: the fall course, followed by the spring course

<sup>4</sup> CHEM courses typically offered in the Fall include: CHEM 436, 457. CHEM courses typically offered in the Spring include CHEM 336, 372, 441, 455, 485. (372, 441, and 485 are only offered in alternating years.)