

# Chemistry Major

Total Major hours: 52  
Suggested hours per semester: 16

## Major Academic Plan (MAP) for Catalog Year 2020-2021

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* or CHEM 341: Organic Chem. II* MATH 231: Calculus I <sup>1</sup>  <i>CORE 101: First Year Seminar</i> <i>First-Year CATC options-</i> <ul style="list-style-type: none"> <li>AHS 101: Wellness (2)</li> <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 Chemistry II* or CHEM 342: Organic Chem. II* MATH 232: Calculus II*  <i>First-Year CATC Options</i> <i>Language Core Competency</i> BITH 211/ARCH 211: Old Testament	<b>Summer 1</b>  Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research
<b>Fall Semester 2</b> CHEM 341: Organic Chemistry I*, if not complete CHEM 294: Chem. Colloquium (1) PHYS 231: Introductory Physics I <sup>1*</sup>  <i>Thematic Core or Core Competency Course</i> BITH 213/ARCH 213: New Testament	<b>Spring Semester 2</b> CHEM 342: Organic Chemistry II*, if not complete CHEM 294: Chem. Colloquium (1) PHYS 232: Intro. Physics II*  <i>Thematic Core Course</i> BITH 315: Christian Thought*	<b>Summer 2</b>  Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research
<b>Fall Semester 3</b> CHEM 355: Intro. to Analytical Chem. (2)* CHEM 371: Physical Chem. I*  <i>Advanced Integrative Seminar?*</i>	<b>Spring Semester 3</b> CHEM 336: Inorganic Chemistry* CHEM 455: Adv. Analytical I (2) <sup>5, 2*</sup> and/or CHEM elective (2 or 4) <sup>3</sup>  <i>Advanced Integrative Seminar?*</i>	<b>Summer 3</b>  Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), internship, summer research
<b>Fall Semester 4</b>  CHEM 494: Chemistry in Context (2)* CHEM 457: Adv. Analytical II (2) <sup>F, 2*</sup> and/or CHEM elective (2) <sup>3</sup>  <i>Thematic Core Course (4-8)</i> <i>Complete CATC Coursework</i>	<b>Spring Semester 4</b>  CHEM elective <sup>3</sup> , if not complete  <i>Complete CATC Coursework</i>	<b>Summer 4</b>

Notes or Special Guidance for Majors:

\*Course has prerequisite

<sup>F</sup> Fall only course

<sup>S</sup> Spring only course

<sup>#</sup> Offered every other year

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

<sup>2</sup>Two upper-level elective courses are required, one of which must be a lab course. Lab courses have the footnote.

<sup>3</sup>Chemistry Electives include: 372\*, 475<sup>2\*</sup>, 461\*, 463<sup>2\*</sup>, 485<sup>2#\*</sup>, 436\* and 437\*. Either CHEM 455 or 457 (Adv. Analytical) is required and does not count as an elective (only pre-requisite for both is CHEM 355); the other course can be taken as an elective. A total of 4 hours (two courses) are required for Chemistry electives, one of which must be a lab course.