

Total Major hours: 52
Suggested hours per semester: 16-18

Chemistry Major with a Biochemistry Concentration

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.

<p>Fall Semester 1 CHEM 231: General Chemistry I* or CHEM 341: Organic Chem. II* MATH 231: Calculus I^{1*}</p> <p><i>CORE 101: First Year Seminar</i> <i>First-Year CATC options-</i></p> <ul style="list-style-type: none"> ▪ AHS 101: Wellness (2) ▪ COMM 101: Oral Comm (2) ▪ ENGW 103: First-Year Writing ▪ Language Core Competency or Thematic Core Course 	<p>Spring Semester 1 CHEM 232: General Chemistry II* or CHEM 342: Organic Chem. II*</p> <p><i>First-Year CATC options</i> <i>Language Core Competency</i> <i>BITH 211/ARCH 211: Old Testament</i></p>	<p>Summer 1</p> <p>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research</p>
<p>Fall Semester 2 CHEM 341: Organic Chemistry I*, if not complete CHEM 294: Chem. Colloquium (1) PHYS 221: General Physics I^{1*} or 231: Introductory Physics I^{1*}</p> <p><i>Core Competency Courses (4-8)</i> <i>BITH 213/ARCH 213: New Testament</i></p>	<p>Spring Semester 2 CHEM 342: Organic Chemistry II*, if not complete CHEM 294: Chem. Colloquium (1) PHYS 222: General Physics II* or 232: Introductory Physics II*</p> <p><i>BITH 315: Christian Thought*</i></p>	<p>Summer 2</p> <p>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research</p>
<p>Fall Semester 3 CHEM 355: Intro. to Analytical Chem. (2)* CHEM 371: Physical Chem. I*</p> <p><i>Thematic Core Course (4-8)</i> <i>Advanced Integrative Seminar?*</i></p>	<p>Spring Semester 3 CHEM 336: Inorganic Chemistry* CHEM 461: Gen. Biochemistry* CHEM 455: Adv. Analytical I (2)^{5, 2*}</p> <p><i>Thematic Core Course</i> <i>Advanced Integrative Seminar?*</i></p>	<p>Summer 3</p> <p>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), internship, summer research</p>
<p>Fall Semester 4</p> <p>CHEM 494: Chemistry in Context (2)* CHEM 462: Adv. Biochemistry (2)* CHEM 457: Adv. Analytical II (2)^{F, 2*}</p> <p><i>Thematic Core Course (4-8)</i> <i>Complete CATC Coursework</i></p>	<p>Spring Semester 4</p> <p>CHEM 463: Biochemistry Analysis (2)*</p> <p><i>Thematic Core Course</i> <i>Complete CATC Coursework</i></p>	<p>Summer 4</p>

Notes or Special Guidance for Majors:

* Course has prerequisite

^F Fall only course

^S Spring only course

[#] Offered every other year

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

²A 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 Adv. Analytical is taken: CHEM 455 in the spring only, or CHEM 457 in the fall.