

Chemistry Major with Secondary Education Licensure Major Academic Plan (MAP) for Catalog Year 2021-2022

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^F or CHEM 341: Organic Chem. I^{*,F} EDUC 135 School & Society (2) EDUC 136 Teaching Ethnically & Linguistically Diverse Students (2) EDUC 136L Cross-Cultural Tutoring (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^{*,S} or CHEM 342: Organic Chem. II^{*,S} MATH 231: Calculus I¹</p> <p><i>First-Year CATC Options</i> <i>Language Core Competency</i> <i>BITH 211/ARCH 211: Old Testament²</i></p>	<p>Summer 1²</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^{*,F}, if not complete PHYS 221: General Physics I^{1,3,F} EDUC 225 Learning & Development EDUC 225L Teacher Aiding Practicum (1)</p> <p><i>Thematic Core or Core Competency Courses (4-8)</i> <i>BITH 213/ARCH 213: New Testament²</i></p>	<p>Spring Semester 2 CHEM 342: Organic Chemistry II^{*,S}, if not complete PHYS 222: General Physics II^{*,3,F}</p> <p><i>Thematic Core Course (4-8)</i> <i>BITH 315: Christian Thought^{2*}</i></p>	<p>Summer 2²</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)^{*,F} CHEM 371: Physical Chem. I^{*,F} EDUC 306 Classroom Communication & Curriculum Integration[*]</p> <p><i>Advanced Integrative Seminar[*]</i></p>	<p>Spring Semester 3 CHEM 336: Inorganic Chemistry^{*,S} EDUC 305 Learning Differences (2)[*] EDUC 305L Learning Differences Practicum (1) EDUC 324L Methods Practicum (Middle & High School) (1) SCI 321 Science for Middle & H.S. Teachers (2)^{S*} SCI 325 Methods of Teaching Middle Grade Science^{S*}</p>	<p>Summer 3²</p> <p>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), internship, summer research</p>
<p>Fall Semester 4</p> <p>EDUC 494 Senior Seminar (2) EDUC 496 Student Teaching (9) EDUC 497 Phil. Foundations of Ed (3)</p>	<p>Spring Semester 4</p> <p>CHEM 494: Chemistry in Context (2)^{*,4} BIOL 461: General Biochemistry^{*,F} Other Science Requirement⁴</p> <p><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 are MATH 231 (AAQR) and PHYS 221 or 231 (SP). See footnote 4 for additional CATC possibilities.

² Summer courses through Wheaton in the Northwoods or HoneyRock are encouraged to meet the CATC Shared Course requirement courses: BITH 211, 213 and 315.

³The Physics requirement can be met with either PHYS 221 and PHYS 222 or PHYS 231 and PHYS 232.

⁴The chemistry capstone course (494) is only offered in the fall, but can be taught as a tutorial in the spring for education and HNGR students only

⁵This major requires an additional science course. Choose from: ENVR 221 (SP), ASTR 305 (SIP) or GEOL 211 (SP).