

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.

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) <i>CORE 101: First Year Seminar</i> <i>First-Year CATC options-</i> <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 	Spring Semester 1 CHEM 232: General Chemistry II ^{*,S} or CHEM 342: Organic Chem. II ^{*,S} MATH 231: Calculus I ¹ <i>First-Year CATC Options</i> <i>Language Core Competency</i> BITH 211/ARCH 211: Old Testament ²	Summer 1² Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research
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) <i>Thematic Core or Core Competency Courses (4-8)</i> BITH 213/ARCH 213: New Testament ²	Spring Semester 2 CHEM 342: Organic Chemistry II ^{*,S} , if not complete PHYS 222: General Physics II ^{*,3,F} <i>Thematic Core Course (4-8)</i> BITH 315: Christian Thought ^{2*}	Summer 2² Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research
Fall Semester 3 CHEM 355: Intro. to Analytical Chem. (2) ^{*,F} CHEM 371: Physical Chem. I ^{*,F} EDUC 306 Classroom Communication & Curriculum Integration [*] <i>Advanced Integrative Seminar[*]</i>	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*}	Summer 3² Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), internship, summer research
Fall Semester 4 EDUC 494 Senior Seminar (2) EDUC 496 Student Teaching (9) EDUC 497 Phil. Foundations of Ed (3)	Spring Semester 4 CHEM 494: Chemistry in Context (2) ^{*,4} BIOL 461: General Biochemistry ^{*,F} Other Science Requirement ⁴ <i>Complete CATC Coursework</i>	Summer 4

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).