

Chemistry Major

with Secondary Education Licensure

Major Academic Plan (MAP) for Catalog Year 2022-2023

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) ⁶ EDUC 136 Teaching Ethnically & Linguistically Diverse Students (2) ⁶ EDUC 136L Cross-Cultural Tutoring (1) ⁶ <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), Wheaton in the Black Hills, 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 ¹ 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} EDUC 305 Learning Differences (2)* <i>Thematic Core Course (4-8)</i> BITH 315: Christian Thought ^{2*}	Summer 2² Consider summer coursework
Fall Semester 3 CHEM 355: Intro. to Analytical Chem. (2) ^{*,F} CHEM 371: Physical Chem. I ^{*,F} EDUC 306 Classroom Communication & Curriculum Integration ^{*,F} <i>Advanced Integrative Seminar*</i>	Spring Semester 3 CHEM 336: Inorganic Chemistry ^{*,S} SCI 321 Science for Middle & H.S. Teachers (2) ^{S*} SCI 325 Methods of Teaching Middle Grade Science ^{S*} LING 326 English Language Methods for content Area Teachers (2) ^S	Summer 3² Consider summer coursework
Fall Semester 4 CHEM 494: Chemistry in Context (2) ^{*,4} BIOL 461: General Biochemistry ^{*,F} Other Science Requirement ⁵	Spring Semester 4 EDUC 494 Senior Seminar (2)* EDUC 496 Student Teaching (9)* EDUC 497 Phil. Foundations of Ed (3) ^{1,*}	Summer 4

EDUC 305L Learning Differences Practicum (1) ⁷ EDUC 324L Methods Practicum (Middle & High School) (1) ⁷	Complete CATC Coursework	
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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). Education classes that meet CATC Thematic Core tags: EDUC 225 (SI) and EDUC 497 (with EDUC 135 taken at Wheaton) meets the PI theme. Also see footnote 5. A maximum of 3 themes may be met with courses also counting for the major.

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.

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

⁴ The chemistry capstone course (494) is only offered in the fall, therefore all chemistry secondary education majors must student teach in their spring semester.

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

⁶ While EDUC 135, 136 and 136L must be taken together, EDUC 101 can be taken separately. All of these courses are offered in the fall and the spring and should be completed in the first year.

⁷ EDUC 324L and EDUC 305L are taken concurrently the semester prior to student teaching.