

Geology Major
with Secondary Education Teacher Licensure
Major Academic Plan (MAP) for Catalog Year 2020-2021

Total Major hours: 92 Suggested hours per semester: 18

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 GEOL 212 Dynamic Earth and Environment ¹ BIOL 201 Contemporary Topics in Biology ⁴ <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 GEOL 343 Fundamentals of Mineral Science (2) ^{#*} EDUC 135 School & Society (2) EDUC 136 Teaching Diverse Students (2) EDUC 136L Cross-cultural Practicum (1) <i>First Year CATC Options</i> <i>Language Core Competency</i> BITH 211/ARCH 211: Old Testament	Summer 1 <i>Consider study, internship or research options –Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research or other options that provide work experience, build your resume, or grow you personally.</i>
Fall Semester 2 GEOL 344 Igneous and Metamorphic Petrology* MATH 263 Introduction to Statistics ⁴ <i>Thematic Core or Core Competency Courses (4-8)</i> BITH 213/ARCH 213: New Testament	Spring Semester 2 GEOL 443 Structural Geology ^{#*} GEOL 321 Earth History and Stratigraphy ¹ EDUC 225 Learning & Dev. and 225L (1) <i>Thematic Core Course</i> BITH 315: Christian Thought* Advanced Integrative Seminar?*	Summer 2 GEOL 345 Sedimentary Geology (2) ^{3##} GEOL 412 Field Geology (6) ^{3##} or <i>Consider study, internship or research options (see faculty for advising)</i>
Fall Semester 3 CHEM 231 General Chemistry I MATH 231 Calculus I ⁴ EDUC 306 Classroom Comm. & Curriculum Integration <i>Advanced Integrative Seminar?*</i>	Spring Semester 3 GEOL 232 Environmental Geochemistry* 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 (2) ^S	Summer 3 <i>Consider study, internship or research options –Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research or other options that provide work experience, build your resume, or grow you personally.</i>

Fall Semester 4	Spring Semester 4	Summer 4
GEOL 494 Senior Geology Capstone (2)* GEOL 336 Process Geomorphology ^{#*} PHYS 221 General Physics I ^{F4} <i>Advanced Integrative Seminar?</i> [*] <i>Complete CATC Coursework</i>	EDUC 494 Senior Seminar (2) EDUC 496 Student Teaching (9) EDUC 497 Phil. Foundations of Ed (3)	

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 Thematic Core tags: GEOL 212 (SP), GEOL 321 (SIP), ENVR/GEOL 341 (AAQR). A maximum of 3 Thematic Core tags can count toward the major and CATC requirements.

²GEOL 343, GEOL 344 and GEOL 443 must be taken in sequence prior to attending summer Field Camp (GEOL 345, GEOL 412).

³Summer only course at the Wheaton Science Center.

⁴There are 4 required supporting courses with additional alternative options. We provided a suggested sequence, but they may be interchanged and taken in any sequence:

- BIOL 201 Contemporary Topics in Biology^F
- MATH 263 Introduction to Statistics OR B EC 321 Statistics or ENVR/GEOL 341 Quantitative Methods for Environmental Analysis and Problem Solving ^{1 #S}
- MATH 231 Calculus I OR MATH 221 Applied Calculus^S
- PHYS 221 General Physics I^F