

Geology Major

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 GEOL 212 Dynamic Earth and Environment ¹ MATH 221 Applied Calculus ⁴ or MATH 231 Calculus I ⁴ PHYS 221 General Physics I 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 321 Earth History and Stratigraphy ^{#1S} Major Electives ^{4, 5} (1-4) <i>Thematic Core Course</i> <i>BITH 315: Christian Thought*</i> <i>Advanced Integrative Seminar?*</i>	Summer 1 <i>Consider study, internship or research options –Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research or other options. (See faculty for advising.)</i>
Fall Semester 2 CHEM 231 General Chemistry I Major Electives ^{4, 5} (1-4) MATH 221 ⁴ or 231 ⁴ , PHYS 221 ⁴ if not complete <i>Thematic Core Course</i> <i>Advanced Integrative Seminar?*</i>	Spring Semester 2 GEOL 232 Environmental Geochemistry ^{#S} and GEOL 343 Mineralogy ^{#S} (2) <i>Thematic Core Course (4)</i> <i>BITH 315: Christian Thought (4)</i> <i>Advanced Integrative Seminar? (4)</i>	Summer 2 <i>Consider study, internship or research options –Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research or other options. (See faculty for advising.)</i>
Fall Semester 3 GEOL 336 Process Geomorphology ^{#*F} GEOL 344 Igneous and Metamorphic Petrology ^{#*F} MATH 221 ⁴ or 231 ⁴ , PHYS 221 ⁴ if not complete <i>Thematic Core or Core Competency Courses (4-8)</i> <i>BITH 213/ARCH 213: New Testament</i>	Spring Semester 3 GEOL 443 Structural Geology ^{#*S} GEOL 321 Earth History and Stratigraphy ^{#1S} if not complete Major Electives ^{4, 5} (1-4) <i>Advanced Integrative Seminar? (4)</i>	Summer 3 GEOL 345 Sedimentary Geology (2) ^{6#*} GEOL 412 Field Geology (6) ^{6#*} or Consider study, internship or research options –Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research or other options. (See faculty for advising.)
Fall Semester 4 GEOL 494 Senior Capstone (2) ^{#*F} Major Electives ^{4, 5} (1-4) MATH 221 ⁴ or 231 ⁴ , CHEM 231, PHYS 221 ⁴ if not complete <i>Complete CATC Coursework</i>	Spring Semester 4 GEOL 232 Environmental Geochemistry ^{#S} and GEOL 343 Mineralogy ^{#S} (2) if not complete Major Electives ^{4, 5} (1-4) <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

¹ Courses that meet the CATC Thematic Core tags: GEOL 212 (SP), GEOL 321 (SIP), 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^{#*}).

³ Required for Bachelor of Arts only.

⁴ Required for Bachelor of Science only.

⁵ B.S. Geology students must choose a 4 hour elective credit in Geology. Choose from:

GEOL 332 Studies in Regional Geology* (1-2, repeatable course)

GEOL 341 Quant. Methods for Env. Analysis and Problem Solving (AAQR)

GEOL 355 Introduction to Soil Science (2)

GEOL 371 Introduction to Geographic Information Systems (2)

GEOL 372 GIS Practicum (2)

GEOL 385 Topics in Earth Science* (2-4)

GEOL 395 Geoscience Research. (1-2)

GEOL 437 Hydrogeology*

GEOL 495 Geoscience Independent Study (2 -4)

⁶ Summer only course at the Wheaton Science Center.

-It is recommended that Bachelor of Science students also take PHYS 222 and MATH 232.