



WHEATON
COLLEGE
For Christ & His Kingdom

Geology Major

Total Major hours: 44 (BA), 52 (BS)
Suggested hours per semester: 14-16

Major Academic Plan (MAP) for Catalog Year 2025-2026

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 135 Calculus for Business/ Social Science ^{1,4*} or MATH 235 Calculus I ^{1,4*} or PHYS 221 General Physics I ^{1,4,F} or PHYS 231 Introductory Physics I ^{1,4,F} CORE 101: First Year Seminar CORE 131: H. H. Flourishing (1) First-Year CATC options- <ul style="list-style-type: none">▪ COMM 101: Oral Comm (2)▪ ENGW 103: First-Year Writing▪ Language Core Competency or Thematic Core Course Language Core Competency	Spring Semester 1 GEOL 212 Dynamic Earth and Environment ¹ , if not complete GEOL 321 Earth History and Stratigraphy ^{1#*} Major Electives ^{4,5} (1-4) First-Year CATC option BITH 211/ARCH 211: Old Testament	Summer 1 <i>Consider study, internship, or research options –Wheaton In summer program, WIN (HoneyRock), Wheaton in the Black Hills, non-major internship, summer research or other options. (See faculty for advising.)</i>
Fall Semester 2 CHEM 231 General Chemistry I ^F Major Electives ^{4,5} (1-4) MATH 135 ^{1,4*} or MATH 235 ^{1,4*} or PHYS 221 ^{1,4,F} or PHYS 231 ^{1,4,F} , if not complete Thematic Core or Core Competency Courses (4-8) BITH 213/ARCH 213: New Testament	Spring Semester 2 GEOL 232 Environmental Geochemistry ^{#*} GEOL 343 Fundamentals of Mineral Science (2) ^{#*} Major Electives ^{4,5} (1-4) Thematic Core Course BITH 315: Christian Thought*	Summer 2 <i>Consider study, internship, or research options –Wheaton In summer program, WIN (HoneyRock), Wheaton in the Black Hills, non-major internship, summer research or other options. (See faculty for advising.)</i>
Fall Semester 3 GEOL 336 Process Geomorphology ^{#*} GEOL 344 Igneous and Metamorphic Petrology ^{#*} Major Electives ^{4,5} (1-4) MATH 263 Introduction to Statistics ^{1,3} or ECON 321 Statistics ³ or GEOL 341 Environmental Statistics and Modeling ^{1,3}	Spring Semester 3 GEOL 443 Structural Geology ^{#*} GEOL 321 Earth History and Stratigraphy ^{1#*} , if not complete Major Electives ^{4,5} (1-4) Thematic Core Course Advanced Integrative Seminar*	Summer 3 GEOL 345 Sedimentary Geology (2) ^{2,6#*} GEOL 412 Field Geology (6) ^{2,6#*}
Fall Semester 4 GEOL 494 Senior Capstone (2)* Major Electives ^{4,5} (1-4) MATH 135 ^{1,4*} or 235 ^{1,4*} or PHYS 221 ^{1,4F} or PHYS 231 ^{1,4F} or CHEM 231 ^F , if not complete Advanced Integrative Seminar*, if not complete Complete CATC Coursework	Spring Semester 4 GEOL 232 Environmental Geochemistry ^{#*} , if not complete Major Electives ^{4,5} (1-4) Complete CATC Coursework	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), PHYS 221 (SP), PHYS 231 (SP), MATH 135 (AAQR), MATH 235 (AAQR) or MATH 263 (AAQR). A maximum of 3 Thematic Core tags can count toward the major and CATC requirements.

² GEOL 343^{#,*}, GEOL 344^{#,*} and GEOL 443^{#,*} must be taken in sequence prior to attending summer Field Camp⁶ (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 Environmental Statistics and Modeling (AAQR)

GEOL 355 Introduction to Soil Science[#] (2)

GEOL 371 Introduction to Geographic Information Systems (GIS)

GEOL 372 GIS Practicum (2)

GEOL 385 Topics in Earth Science (Climate Change, Petroleum Geology)* (2-4)

GEOL 437 Hydrogeology^{##}

⁶ Summer only course at the Wheaton Field Station.