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	Spring Semester 1	Summer 1
GEOL 212 Dynamic Earth and Environment ¹ MATH 221 Applied Calculus ⁴ or MATH 231 Calculus I ^{*4} or PHYS 221 General Physics I ^{1,4, F} CORE 101: First Year Seminar First-Year CATC options- • AHS 101: Wellness (2) • COMM 101: Oral Comm (2) • ENGW 103: First-Year Writing • Language Core Competency or Thematic Core Course	GEOL 212 Dynamic Earth and Environment ¹ , if not complete, or GEOL 343 Fundamentals of Mineral Science (2) ^{#*} First-Year CATC Options Language Core Competency BITH 211/ARCH 211: Old Testament	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.)
Fall Semester 2	Spring Semester 2	Summer 2
GEOL 336 Process Geomorphology [#] * or GEOL 344 Igneous and Metamorphic Petrology* MATH 221 ⁴ or 231 ⁴ or PHYS 221 ^{1,4, F} , if not complete Thematic Core or Core Competency Courses (4-8) BITH 213/ARCH 213: New	GEOL 321 Earth History and Stratigraphy ¹ or GEOL 443 Structural Geology [#] * Major Electives ^{4, 5} (1-4) Thematic Core Course BITH 315: Christian Thought* Advanced Integrative Seminar?*	GEOL 345 Sedimentary Geology (2) ^{6#*} GEOL 412 Field Geology (6) ^{6#*} or <i>Consider study, internship or research</i> <i>options.</i>
Testament Fall Semester 3	Spring Semester 3	Summer 3
CHEM 231 General Chemistry I Major Electives ^{4, 5} (1-4) MATH 263 Introduction to Statistics ^{1, 3} or B EC 321 Statistics ³ or ENVR 341 Quantitative Methods ^{1,4} for Environmental Analysis and Problem Solving ³ or GEOL 341 ³	GEOL 232 Environmental Geochemistry* GEOL 343 Fundamentals of Mineral Science (2) #*, if not complete Major Electives ^{4, 5} (1-4)	Consider study, internship or research options –Wheaton In summer program, WIN (HoneyRock), non- major internship, summer research or other options. (See faculty for advising.)
Thematic Core Course Advanced Integrative Seminar?*	Advanced Integrative Seminar?* Thematic Core Course	

Fall Semester 4	Spring Semester 4	Summer 4
GEOL 494 Senior Capstone (2)* GEOL 336 Process Geomorphology [#] * or GEOL 344 Igneous and Metamorphic Petrology*	GEOL 321 Earth History and Stratigraphy ¹ or GEOL 443 Structural Geology [#] *	If not complete: GEOL 345 Sedimentary Geology (2) ^{6#*} GEOL 412 Field Geology (6) ^{6#*}
Complete CATC Coursework	Complete CATC Coursework	

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), MATH 263 (AAQR), ENVR 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 (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 Science Center.

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