

# Geology Major

## with Secondary Education Teacher Licensure

### Major Academic Plan (MAP) for Catalog Year 2021-2022

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.

<p><b>Fall Semester 1</b></p> <p>GEOL 212 Dynamic Earth and Environment<sup>1</sup> BIOL 201 Contemporary Topics in Biology</p> <p>CORE 101: First Year Seminar First Year CATC options-</p> <ul style="list-style-type: none"> <li>▪ AHS 101: Wellness (2)</li> <li>▪ COMM 101: Oral Comm (2)</li> <li>▪ ENGW 103: First-Year Writing</li> <li>▪ Language Core Competency or Thematic Core Course</li> </ul>	<p><b>Spring Semester 1</b></p> <p>GEOL 343 Fundamentals of Mineral Science (2)<sup>#*</sup> EDUC 135 School &amp; Society (2) EDUC 136 Teaching Diverse Students (2) EDUC 136L Cross-cultural Practicum (1)</p> <p>First Year CATC Options Language Core Competency BITH 211/ARCH 211: Old Testament</p>	<p><b>Summer 1</b></p> <p><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></p>
<p><b>Fall Semester 2</b></p> <p>GEOL 336 Process Geomorphology* OR GEOL 344 Igneous and Metamorphic Petrology*</p> <p>Thematic Core or Core Competency Courses (4-8) BITH 213/ARCH 213: New Testament</p>	<p><b>Spring Semester 2</b></p> <p>GEOL 321 Earth History and Stratigraphy<sup>1</sup> OR GEOL 443 Structural Geology<sup>#*</sup> EDUC 225 Learning &amp; Dev. and 225L (1)</p> <p>Thematic Core Course BITH 315: Christian Thought* Advanced Integrative Seminar?*</p>	<p><b>Summer 2</b></p> <p>GEOL 345 Sedimentary Geology (2)<sup>3#*</sup> GEOL 412 Field Geology (6) <sup>3#*</sup> or <i>Consider study, internship or research options (see faculty for advising)</i></p>
<p><b>Fall Semester 3</b></p> <p>CHEM 231 General Chemistry I MATH 263 Introduction to Statistics<sup>3</sup> or B EC 321 Statistics or ENVR 341 Quantitative Methods for Environmental Analysis and Problem Solving or GEOL 341<sup>1</sup> EDUC 306 Classroom Comm. &amp; Curriculum Integration</p> <p>Advanced Integrative Seminar?*</p>	<p><b>Spring Semester 3</b></p> <p>GEOL 232 Environmental Geochemistry* EDUC 305L Learning Differences Practicum (1) EDUC 324L Methods Practicum Middle &amp; High School (1) SCI 321 Science for Middle &amp; H.S. Teachers (2)<sup>S</sup> SCI 325 Methods of Teaching Middle Grade Science (2)<sup>S</sup></p>	<p><b>Summer 3</b></p> <p><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></p>

Fall Semester 4	Spring Semester 4	Summer 4
GEOL 494 Capstone (2)* GEOL 336 Process Geomorphology <sup>#*</sup> OR GEOL 344 Igneous and Metamorphic Petrology* EDUC 494 Senior Seminar (2) EDUC 496 Student Teaching (9) EDUC 497 Phil. Foundations of Ed (3)	GEOL 321 Earth History and Stratigraphy <sup>1</sup> OR GEOL 443 Structural Geology  <i>Advanced Integrative Seminar?*</i> <i>Complete CATC Coursework</i>	If not complete: GEOL 345 Sedimentary Geology (2) <sup>3##</sup> GEOL 412 Field Geology (6) <sup>3##</sup>

**Notes or Special Guidance for Majors:**

\*Course has prerequisite

<sup>F</sup> Fall only course

<sup>S</sup> Spring only course

<sup>#</sup> Offered every other year

<sup>1</sup>Classes that meet 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. Students are encouraged to

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

<sup>3</sup>Summer only course at the Wheaton Science Center.