## Major Academic Plan (MAP) for Catalog Year 2020-2021

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 <sup>1</sup> MATH 221 Applied Calculus <sup>4</sup> or MATH 231 Calculus I <sup>4</sup> PHYS 221 General Physics I <sup>4</sup> 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 <sup>1</sup> 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), non- major internship, summer research or other options. (See faculty for advising.)
Fall Semester 2	Spring Semester 2	Summer 2
GEOL 336 Process Geomorphology <sup>#*</sup> or GEOL 344 Igneous and Metamorphic Petrology <sup>*</sup> MATH 221 <sup>4</sup> or 231 <sup>4</sup> , if not complete PHYS 221 <sup>4</sup> Thematic Core or Core Competency Courses (4-8) BITH 213/ARCH 213: New Testament	GEOL 321 Earth History and Stratigraphy <sup>1</sup> or GEOL 443 Structural Geology <sup>#*</sup> Major Electives <sup>4, 5</sup> (1-4) Thematic Core Course BITH 315: Christian Thought* Advanced Integrative Seminar?*	GEOL 345 Sedimentary Geology (2) <sup>6#</sup> * GEOL 412 Field Geology (6) <sup>6#</sup> * 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 3	Spring Semester 3	Summer 3
CHEM 231 General Chemistry I Major Electives <sup>4, 5</sup> (1-4) MATH 263 Introduction to Statistics <sup>3</sup> or B EC 321 Statistics <sup>3</sup> or ENVR 341 Quantitative Methods for Environmental Analysis and Problem Solving <sup>3</sup> or GEOL 341 <sup>3</sup>	GEOL 232 Environmental Geochemistry* GEOL 343 Fundamentals of Mineral Science (2) #*, if not complete Major Electives <sup>4, 5</sup> (1-4) Advanced Integrative Seminar?* Thematic Core Course	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?*		

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

## 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> 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.

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

<sup>3</sup> Required for Bachelor of Arts only.

<sup>4</sup> Required for Bachelor of Science only.

<sup>5</sup> 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<sup>#</sup> (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\*

<sup>6</sup> Summer only course at the Wheaton Science Center.

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