

**The Geology Major for cohorts beginning in 2016, 2017, 2018 (Classes of 2020, 2021, 2022)**

**GEOLOGY MAJOR REQUIREMENTS UNDER SEMESTERS (44 credits)**

GEOL-101 or 105	4 credits
GEOL-201, 205, 240, 450, and 451	20 credits
Two courses from GEOL-309, 350, 360	8 credits
Two courses from GEOL-xxx, GEOG-306, ENVR-300	8 credits
One required supporting science course from CHEM-131 or CHEM-235.	4 credits

Upper-level geoscience courses assume math skills equivalent to those covered in a high school or college pre-calculus course. Students planning to pursue graduate studies or careers in the geosciences are strongly recommended to take MATH-160 as well as additional courses in physics, mathematics, chemistry, geography, and/or biology.

**Geology major requirements for “transitional students” matriculating before fall 2019:**

**Standard trimester courses are 3 credits**

**Standard semester courses are 4 credits**

**Many students graduating in 2020-2022 will have fewer than 44 credits in the major.**

Required	Title	Credits	Taken
GEOL-101 or GEOL-105	Physical Geology Physical Geology in the Rocky Mtns.	3 3	
GEOL-201 or GEOL-201	Historical Stratigraphy History of Life	3 4	
GEOL-301 or GEOL-205	Mineralogy Mineralogy	3 4	
GEOL-340 or GEOL-240	Structural Geology and Tect. Structural Geology and Tect.	3 4	
GEOL-450	Research Methods	3 or 4	
GEOL-451	Senior Inquiry	3 or 4	
2 from GEOL-309 GEOL-350 GEOL-403 or GEOL-360	Geomorphology Sedimentology and Stratigraphy Petrology Petrology	3 or 4 4 3 4	
2 from GEOL-xxx GEOL-xxx GEOG-306 ENVR-300	Geology elective Geology elective Soil Science Climate Change and Sust. Energy	3 or 4 3 or 4 3 or 4 3 or 4	
CHEM-121 and CHEM-122 or CHEM 131 or CHEM 235	General Chemistry I General Chemistry II  General Chemistry I Intro. Inorganic Chemistry	3 3  4 4	
<b>Highly recommended</b>			
GEOG-373	GIS	3 or 4	
MATH-219 or MATH-160	Calculus I Calculus	3 4	
PHYS-101 or PHYS-151	Principles of Physics I Principles of Physics I	3 4	



### **Geology minor requirements**

MINOR IN GEOLOGY. 17 credits (4 courses + 1 credit), including required courses GEOL-101 or GEOL-105, GEOL-399 (1-credit), and 12 additional credits from GEOL courses at or above the 200-level. GEOG-306 and ENVR-300 may be substituted for GEOL courses. GEOL-399, coordinated with a faculty member, requires completion of a research paper that addresses some aspect of geology and relates it to the student's primary major, and it must incorporate an additional reflective component demonstrating an understanding of the connectivity between subject areas. This paper could conceivably be an extension of the Senior Inquiry effort within the student's primary major.