

Geology Minor
Department of Earth & Atmospheric Sciences, 303-615-1177, Science Room 2028
College of Letters, Arts, and Sciences

Catalog
2021-2022

This sheet applies to the 2021-22 catalog *only*. It does not replace the full catalog or departmental advising sheets as official statements of requirements. Students with declared minors *must* work with an advisor on course selection and sequencing to ensure a timely graduation.

Core Courses	20
Elective Courses	4 Min.
Total for Geology Minor	24

Geology Minor Required Courses

	<u>Credits</u>
___ GEL 1010 Physical Geology	4
___ GEL 1030 Historical Geology (<i>Preq. GEL 1010</i>)	4
___ GEL 3050 Intro to Mineralogy & Optical Mineralogy (<i>Preq. GEL 1010, CHE 1800</i>)	4
___ GEL 4450 Sedimentary Geology & Stratigraphy (<i>Preq. GEL 1030, GEL 3050, and MTH 1120 or MTH 1400</i>)	4
___ GEL 4460 Structural Geology and Mapping (<i>Preq. GEL 4450</i>)	4

Elective Courses (min. 4 credits)

	<u>Credits</u>
___ GEL 1020 Geology of Colorado	3
___ GEL 2530 Introduction to Geologic Field Methods (<i>Preq. GEL 1010, GEG 1220 or equivalent</i>)	2
___ GEL 3120 Geomorphology (<i>Preq. GEL 1010 or GEG 1100</i>)	4
___ GEL 3420 Soil Resources (<i>Preq. ENV 1200</i>)	4
___ GEL 3440 Energy and Mineral Resources (<i>Preq. ENV 1400 & GEL 3050</i>)	4
___ GEL 3510 Adv. Geology of Red Rocks Park and Vicinity (<i>Preq. 9 credits of GEG or GEL</i>)	1
___ GEL 3520 Adv. Garden of the Gods-Front Range Geology (<i>Preq. 9 credits of GEG or GEL</i>)	2
___ GEL 3530 Adv. Geology of the Colorado Plateau Field Course: Variable Topics (<i>Preq. GEL 1010, one lower GEL field course</i>)	2
___ GEL 3550 Adv. Geology the Great Sand Dunes National Monument (<i>Preq. 9 credits of GEG or GEL</i>)	2
___ GEL 3920 Directed Study in Geology (<i>Preq. 15 credits of GEL</i>)	2-6

Elective Courses continued

	<u>Credits</u>
___ GEL 4050 Igneous and Metamorphic Petrology (<i>Preq. GEL 3050</i>)	4
___ GEL 4150 Hydrology (Surface Water) (<i>Preq. GEG 1100 or GEG 1910 or ENV 3400</i>)	4
___ GEL 4250 Hydrogeology (Groundwater) (<i>Preq. GEL 1010, CHE 1800, MTH 1110/Co-Preq. GEL 3420</i>)	4
___ ENV 3540 Advanced Geologic & Env Hazards-Denver (<i>Preq. 9 credits of GEG or GEL</i>)	2
___ ENV 3700 Mountain Environments (<i>Preq. ENV 1200, 9 credits of ENV, GEL, GEG, BIO, CHE, MTR and Jr. Standing</i>)	3
___ ENV 4000 Environmental Geology (<i>Preq. GEL 1010, GEL 3120 & GEL 3420</i>)	3
___ ENV 4010 Environmental Hazards and GIS (<i>Preq. ENV 4000; GEG 3610 Recommended</i>)	3

Geology is a particularly integrative field because in order to understand Earth's physical processes, the vast network of interconnections within the Earth system must also be considered. Consequently, geology incorporates ideas and perspectives from many different fields such as chemistry, physics, biology, astronomy, water science, environmental science, mathematics, art, and more. These many connections make geology an appropriate and fascinating minor for students with any major. The geology minor offers a strong foundation for understanding how Earth has developed and changed through time. Students should consult with a department advisor to assist with program planning.

Students must complete each course with a grade of "C-" or better.