GEOLOGY, MINOR - LIBERAL ARTS

Liberal Arts (Code 160-401)

Code	Title	Credits
Minimum 24 semester credits in geology, including:		
Select one of the following:		4
GEOL 106	Earth Science	
GEOL 110	Physical Geology	
GEOL 115	Environmental Geology	
GEOL 118	Societal Issues in Earth Science	
Required:		
GEOL 312	Mineralogy and Petrology I	5
Select a minimum of six semester credits from the following:		6
GEOL 291	Special Topics	
GEOL 301	Earth Resources and Sustainability	
GEOL 303	Rocky Mountain Field Studies	
GEOL 304	Global Environmental Change	
GEOL 308	Water Resources	
GEOL 313	Mineralogy and Petrology II	
GEOL 315	Hydrogeology I	
GEOL 320	Sedimentology and Stratigraphy	
GEOL 330	Structural Geology	
GEOL 336	Introduction to Geochemistry	
GEOL 337	Analytical Geochemistry Laboratory	
GEOL 343	Geological Field Excursion	
GEOL 345	Geomorphology and Aerial Photography Interpretation	
GEOL 365	Economic Mineral Deposits	
GEOL 390	Geologic Immersion Experience	
GEOL 395	Directed Studies	
GEOL 416	Hydrogeology II	
GEOL 418	Earth History	
GEOL 420	Glacial Geology	
GEOL 445	Engineering Geology and Geophysics	
GEOL 468	Computers in Geology	
GEOL 470	Field Geology I	
GEOL 471	Field Geology II	
GEOL 491	Advanced Special Topics	

NOTE 1: No degree credit may be earned under the Satisfactory/Unsatisfactory option in any required courses in a geology major or minor.

NOTE 2: Recommended electives: GEOL 470 and GEOL 471.

Program Learning Outcomes

Students completing this program will be expected to meet the following learning outcomes:

- Explain Earth processes.
- Use mathematics and computational methods to analyze scientific and geological data.
- Read, write, and critically evaluate geological papers.
- Construct an internally consistent geological map utilizing field data, topographic maps, geological maps, air photos, geographic information systems (GIS) data, and geological cross sections.
- Evaluate a geological field site and produce a professional report.