

Geology (GEO)

GEO 101. Intro to Physical Geology. 4 Credits.

Introductory geology emphasizing the physical constitution of the Earth's interior and surface. Co-requisite: GEO 102. This course does meet the laboratory science requirement.

GEO 102. Intro to Physical Geology Lab. 0 Credits.

Laboratory for GEO 101. Co-requisite: GEO 101.

Course Fees: \$5.35

GEO 191. Special Topics. 3 Credits.

Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number.

GEO 192. Independent Study. 3 Credits.

Provides an opportunity for students to engage in directed research and study on an individual basis rather than in a formal class environment.

GEO 206. Dinosaur Paleobiology. 4 Credits.

This course covers the history of dinosaur paleontology, and the evolution, classification, and life history strategies of the major groups of dinosaurs. Basic concepts of geology, plate tectonics and identifying characteristics of ancient Mesozoic environments will also be covered. Lab exercises include local field trips and lab identification of Montana dinosaur fossils. Application of the scientific method is emphasized throughout the course. Dinosaur discoveries from various parts of the world will be discussed, but this course will focus on the abundant and significant dinosaur finds from Montana and the surrounding region. Prerequisite: one college-level science course or consent of instructor.

GEO 211. Earth History and Evolution. 4 Credits.

Introductory geology emphasizing the evolution of the Earth and life through geological time. GEO 101 and GEO 102 is recommended. Co-requisite: GEO 212. This course does meet the laboratory science requirement.

GEO 212. Earth History & Evolution Lab. 0 Credits.

Laboratory for GEO 211. Co-requisite: GEO 211.

Course Fees: \$5.35

GEO 291. Special Topics. 3 Credits.

Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number.

GEO 292. Independent Study. 3 Credits.

Provides an opportunity for students to engage in directed research and study on an individual basis rather than in a formal class environment.

GEO 298. Cooperative Education. 1-12 Credits.

A planned and supervised work-learning experience in industry, business, government, or community service agencies related to the University program of study. Prerequisites: two semesters of attendance at Montana State University-Northern, approval of advisor, Dean of the College of Technical Sciences, and cooperative education coordinator. Pass/Fail Only.

GEO 303. Landscape Geology. 4 Credits.

GEO 304. Landscape Geology Lab. 0 Credits.

GEO 314. Intro to Paleontology. 3 Credits.

This course will provide an introduction to paleontology and the various procedures in the field with special emphasis on Montana and Alberta Fossils. Prerequisite: one college level science course or consent of instructor. This course does meet the laboratory science requirement.

Course Fees: \$10.75

GEO 324. Landscape Geology. 4 Credits.

This course focuses on the origin/evolution of landforms and the physical process responsible for their creation and modification. Each topic will relate to the recurring themes that geologists use as guiding principles for the course: laws of conservation, transport rules, and event magnitude/frequency. The course covers the "big picture" view of geomorphology, the construction of landscapes, and the surface processes responsible for sculpting the landscape.

GEO 328. General Hydrology. 3 Credits.

An overview of the water cycle with special emphasis on flowing and standing water systems. Offered alternate years. This course does not meet the laboratory science requirement.

GEO 391. Special Topics. 3 Credits.

Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number.

GEO 392. Independent Study. 3 Credits.

Provides an opportunity for students to engage in directed research and study on an individual basis rather than in a formal class environment.

GEO 398. Cooperative Education. 1-12 Credits.

A planned and supervised work-learning experience in industry, business, government, or community service agencies related to the University program of study. Prerequisites: two semesters of attendance at Montana State University-Northern, approval of advisor, Dean of the College of Technical Sciences, and cooperative education coordinator. Pass/Fail Only.