

GEOLOGY (GEOL)

GEOL 102. Historical Geology

Credits: 3

Prerequisites: GEOL105 & GEOL 105L.

Corequisite: Concurrent registration in, or previous successful completion of, GEOL 102L.

Typically Offered: ONDEMAND

Three hours of lecture and recitation per week. A study of the deposits laid down during the past geological ages and their fossil contents.

GEOL 102L. Historical Geology Lab

Credits: 1

Prerequisite: GEOL 105 & GEOL 105L.

Corequisite: Concurrent registration in, or previous successful completion of, GEOL 102.

Typically Offered: ONDEMAND

Two hours of lab per week. Laboratory exercises investigate the evolution of the Earth's crust through geologic time. Topics include: plate tectonics, statistical analysis of sediments, strata chronology and the influence of structural forces, relative and radiometric dating, sorting and correlation techniques, geomagnetism, geologic implications in the fossil record, and others.

GEOL 105. Physical Geology

Credits: 3

Corequisite: Concurrent registration in, or previous successful completion of, GEOL 105L.

Typically Offered: FALL

Three hours of lecture and recitation per week. A study of rocks, minerals and the geological processes such as erosion, earthquakes, mountain building and origin of land forms.

GEOL 105L. Physical Geology Lab

Credits: 1

Corequisite: Concurrent registration in, or successful completion of, GEOL 105.

Typically Offered: FALL

Two hours of lab per week. Laboratory topics include identification of minerals and rocks with emphasis on traditional diagnostic techniques; interpretation of topographic and geologic maps, folding and faulting of the crust; analysis of stream drainage patterns and groundwater resources; location of earthquake foci; and the development of topographic surfaces through the processes of erosion and deposition.