

GEOLOGY (GOL)

GOL 105 Physical Geology (4 CR.)

Introduces the science of physical geology through a comprehensive systems-based examination of Earth's structure, composition, rocks and minerals, landforms, geomorphology, and agents responsible for shaping and modifying its environments. Explores the origin and evolution of Earth's topographic and bathymetric features, geologic phenomena, and geologic hazards, resulting from plate tectonics. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. This is a Passport and UCGS transfer course.

GOL 106 Historical Geology (4 CR.)

Traces the evolution of the earth and life through time. Presents scientific theories of the origin of the earth and life and interprets rock and fossil record. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. This is a Passport and UCGS transfer course.

GOL 110 Earth Systems: An Environmental Geology Perspective (4 CR.)

Introduces concepts in earth systems including earth materials, plate tectonics, weathering, surface and groundwater, wasting, volcanoes, earthquakes and coastal, as well as pollution and climate change. Explores major topics relating human interaction with the physical environment through case studies. Reinforces applications through laboratory experiments, demonstrations, and field studies. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. This is a Passport and UCGS transfer course.

GOL 111 Oceanography I (4 CR.)

Examines the dynamics of the oceans and ocean basins. Applies the principles of physical, chemical, biological, and geological oceanography. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. Credit for Prior Learning available for this course. More information at <https://www.nvcc.edu/admissions/cpl.html>.

GOL 112 Oceanography II (4 CR.)

Examines the dynamics of the oceans and ocean basins. Applies the principles of physical, chemical, biological, and geological oceanography. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week. **Prerequisite(s)** instructor permission

GOL 135 Field Studies in Geology (1 CR.)

Investigates geologic phenomena. Includes activities such as observation of regional geology and land forms, collection of samples, and measurement and interpretation of geologic structures. Field Studies - 3 hours per week.

GOL 206 Paleontology (4 CR.)

Prerequisite is GOL 106 or permission of instructor. Surveys major groups of fossil invertebrates and vertebrates. Covers form, function, ecology, and evolution for each group in the context of geologic time. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

GOL 207 Mineralogy (4 CR.)

Prerequisite is GOL 105. Provides details for study of minerals. Focuses on the structure and properties of minerals, their occurrence and uses. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.

GOL 225 Environmental Geology (4 CR.)

Prerequisite is GOL 105. Explores the interaction between man and his physical environment. Stresses geologic hazards and environmental pollution utilizing case histories. Lecture 3 hours. Laboratory 3 hours. Total 6 hours per week.