GEOLOGY (GEOL)

GEOL G105 **3 Units (54 lecture hours)**
General Geology
Grading Mode: Standard Letter
Transfer Credit: CSU; UC: Credit Limitation: No credit for GEOL G105 if taken after GEOL G110.

This course is an introduction to geology designed specifically for non-science majors. The Scientific Method is used to illustrate the discovery of natural physical processes on Earth. Content includes aspects of geology with emphasis on recent discoveries of plate tectonics and the movement of continents. Students will study topics such as important minerals, rock classification, mountain building and interior processes responsible for landscape development. This course will also cover historical topics such as the geologic time scale, the fossil record and evolution of life from marine organisms to land plants and animals. In addition, cover environmental geology, including the impacts humans have on Earth and how the Earth impacts humans through landslides, flash floods, volcanic eruptions, and earthquakes. Graded.

GEOL G106 **4 Units (54 lecture hours; 54 lab hours)**
Earth Science For Teachers
Grading Mode: Standard Letter
Transfer Credit: CSU; UC.

This course is an introduction to Earth Science for educators. Topics include physical geology, historical geology, physical oceanography, and meteorology, planetary science and astronomy. The scientific method will be employed in relation to Earth Science. The subjects covered are part of the state of California science standards for K-12 classes. Emphasis will be placed on how these topics should be addressed by teachers within the California Science Framework. A field trip may be required. Graded. **C-ID:** GEOL 121.

GEOL G110 **4 Units (54 lecture hours; 54 lab hours)**
Physical Geology
Grading Mode: Standard Letter
Transfer Credit: CSU; UC.

This course is an introductory survey of physical geology and the scientific method, including the internal and surface processes responsible for shaping the Earth and produced from natural resources and geologic landscapes. Past and present geologic processes such as mountain building, climate change, and the evolution of life in the fossil record will be examined. Resource extraction, identification of minerals and rocks with the natural processes are covered in lecture and laboratory work. Recognition of geologic hazards both natural and human caused. Geographical Information Systems (GIS), maps, and digital satellite images are used in the lab. Graded. **C-ID:** GEOL 101.

GEOL G120 **4 Units (54 lecture hours; 54 lab hours)**
Historical Geology
Grading Mode: Standard Letter
Transfer Credit: CSU; UC.

This course is an introduction to the development of the Earth through time. The scientific method is used to understand the geologic evolution of land forms such as mountains, oceans, canyons, faults and the tectonic development of the Earth. This course examines how tectonic activity shaped landscapes, climate and the development of life, which started in the ocean and evolved onto land. The geologic time scale is used to understand plant and animal evolution, extinctions, and how modern plant and animal forms developed. Graded. **C-ID:** GEOL 111.