

# COURSES

## GEOLOGY

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**GEL-111      Geology**

**Lec 3   Lab 2   Clinic 0   Credit 4**

This course introduces basic landforms and geological processes. Topics include rocks, minerals, volcanoes, fluvial processes, geological history, plate tectonics, glaciers, and coastal dynamics. Upon completion, students should be able to describe basic geological processes that shape the earth.

**Co-Requisites:** None

**Pre-Requisites:** None

**Competencies:** Explain fundamental geologic concepts including earth structure, plate tectonics, rocks and minerals, rock cycle, crystal deformation, surficial processes, earth resources and geohazards. Apply the basic methods of scientific inquiry in the context of geology. Recognize and quantify the operation of Earth system processes over geologic and human timescales and over local, regional and global spatial scales. Manipulate, interpret and construct visualizations of geologic data using maps, graphs, and contemporary technology. Demonstrate an appreciation for the societal relevance of geology and the impact of humans on the earth system.