

GEOLOGY (GEOL)

◆GEOL 1403

Physical Geology

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course is an introduction to the study of the materials and processes that have modified and shaped the surface and interior of Earth over time. These processes are described by theories based on experimental data and geologic data gathered from field observations. Laboratory activities will cover methods used to collect and analyze earth science data.

Prerequisite: TSI complete in Reading or equivalent.

◆GEOL 1404

Historical Geology

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course is a comprehensive survey of the history of life and major events in the physical development of Earth as interpreted from rocks and fossils. Laboratory activities will introduce methods used by scientists to interpret the history of life and major events in the physical development of Earth from rocks and fossils.

Prerequisite: GEOL 1403 with a grade of "C" or better.

◆GEOL 1445

Oceanography

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course is a survey of oceanography and related sciences. This course will explore the physical, chemical, geological, and biological processes operating in the marine environment. The dynamic processes that affect the ocean water, sea floor, and abundant life forms will be studied as will the methods and techniques scientists use to investigate the ocean. Discussion topics include, but are not limited to, the origin of ocean basins, properties of sea water, wind circulation, waves and tides, coastal and ocean habitats, ocean resources, and human presence in the ocean and related environmental challenges. It is recommended but not required that students take this course in sequence with Meteorology (GEOL 1447).

Prerequisite: TSI complete in Reading and in Math or equivalent.

◆GEOL 1447

Meteorology

CRT HRS:4 LEC HRS:3 LAB HRS:3 OTH HRS:0

This course is a survey of meteorology and related sciences. This course will explore energy, temperature, moisture, precipitation, and winds that combine to create the weather. Discussion topics include, but are not limited to, the causes of the seasons, forms of moisture, atmospheric stability, cloud development, precipitation processes, pressure, storm systems, thunderstorms, lightning, tornadoes, hurricanes, and world climate. Labs include but are not limited to, reading and preparing weather maps, making weather measurements, and seasons. It is recommended, but not required that students take this course in sequence with Oceanography (GEOL 1445).

Prerequisite: TSI complete in Reading and in Math or equivalent.