

GEOL (Geology)

GEOL 1010 - Gen Geology I-Physical Geology

(4 Credits)

This course investigates the planet Earth, explaining the geologic events and features through plate tectonics. Major topics included are the study of minerals and rocks; volcanoes; earthquakes; weathering and erosion; streams and floods; and groundwater. In addition, a field trip to localities in Rhode Island and the vicinity is taken. Course fulfills one lab science requirement for A.A. degree. Lecture: 3 hours, Lab: 2 hours Lab Fee: \$20.00 Completes the following requirement(s): lab science requirement (LABS) mathematics and science (MSCI)

GEOL 1020 - The Earth Through Time

(4 Credits)

This course investigates the geological history of the Earth. Topics include plate tectonics; climate change, such as the Ice Age; and the evolution of life (e.g. dinosaurs). A key goal is to learn how these topics have interacted through time resulting in the present location of our continents, oceans, and present day life. Off-campus field trips to Rhode Island locations are usually scheduled. Lab Fee: \$20.00 Completes the following requirement(s): lab science requirement (LABS) mathematics and science (MSCI)

GEOL 1030 - Natural Disasters

(3 Credits)

This course studies the earth by focusing on natural disasters. The causes and consequences of such events are examined within the framework of earth sciences. Major topics covered include earthquakes, volcanoes, tsunamis, landslides, climate change, hurricanes, floods and meteorite impacts. Lecture: 3 hours Completes the following requirement(s): mathematics and science (MSCI)

GEOL 1040 - Introduction to Geographic Information Systems (GIS)

(3 Credits)

This course is an introduction to using ArcGIS 9.3 to create and analyze digital maps. Students learn how to use the software to create maps, graphs, and reports. Basic cartography, coordinate systems, geodesy, map projections, and map design are also covered. Students complete and present a final mapping project on a topic of their choosing. Lecture: 2 hours, Lab: 2 hours Lab Fee: \$20.00 Completes the following requirement(s): mathematics and science (MSCI)

GEOL 1050 - Urban Geology

(4 Credits)

This course explores the relationship of cities to their natural settings. The Earth's surface features, geological processes, and internal structure are explored, including plate tectonics, earthquakes, volcanoes, the rock cycle, rivers, and mass wasting. These and more are investigated in terms of their effect on urban areas. Topics include building stone, water supply, sanitation, population growth, and megacities in the developing world. There will be a field trip to look at stone buildings in Providence or Newport. Lecture: 3 hours, Lab: 2 hours Completes the following requirement(s): lab science requirement (LABS) mathematics and science (MSCI)