Overview

Geology I: Physical provides undergraduate students seeking initial licensure or endorsement in secondary science education with an introduction to minerals and rocks, the physical features of the Earth, and the internal and surface processes that shape those features. This course has no prerequisites.

Competencies

**Earth Science History**

The graduate traces Western history of Earth sciences to discuss key concepts and famous scientists in a cultural context.

**Plate Tectonics**

The graduate analyzes composition, location, movement, and physical evidence of tectonic plates to distinguish landforms and geologic features.

**Minerals and Rocks**

The graduate analyzes minerals and rocks for the purpose of identification and classification.

**Earth's Internal Processes**

The graduate examines Earth's internal processes to discuss Earth's magnetic field, convection currents in the mantle, and plate tectonic activity.

**Earth's Surface Processes**

The graduate examines weathering, erosion, and deposition of sediments by gravity, wind, water, and ice to describe landform and geologic features.

**Mapping**

The graduate analyzes topographical and geologic maps to deduce landform and geologic features.

**Planetary Geology**

The graduate examines solar system objects, including composition, properties, location, and origin, to determine Earth’s evolution within the solar system.

Learning

Getting Started
You will have an opportunity to explore physical geology through hands-on lab experiments. For the best understanding of the concepts, work through each of the readings and learning activities as presented in the modules. Competency in this course is demonstrated by the successful completion of a performance assessment and an objective assessment.

If you have not done so within a previous course, you will need to order your Geoscience/Earth Science LabPaq from Hands-On Labs. This LabPaq is a physical shipment and contains equipment and supplies needed to complete science experiments at home. The experiments reinforce the science content and teach laboratory techniques. The cost of the LabPaq is covered by your program lab fee.

Follow these instructions to order the Geoscience/Earth Science LabPaq. If you have ordered and received this LabPaq within a previous course, then there is no need to order another. Delivery of your LabPaq takes about 5–7 business days, so please order your LabPaq 1–2 weeks before starting your course to ensure you will have the supplies you need to complete the experiments. The contents of this LabPaq are used in four courses within your program: General Physics, Geology I: Physical, Geology II: Earth Systems, and Ecology and Environmental Science.

The packing list that comes with your kit WILL NOT allow you to do a full inventory because it won't list all the contents of the individual modules in your kit. Please use the packing list linked here: Lab Kit List to do a complete inventory of your kit when it arrives. Inventory your kit WITHIN 30 DAYS of receiving it, and contact HOL Customer Service at 866-206-0773, option 3, if you are missing any items. If you don't feel like HOL is providing you with responsive customer service, please let your Program Mentor and/or Course Instructor know immediately.

Cohort Sign-up

Cohorts provide additional structure and support for challenging aspects of this course. In a cohort you receive specific homework assignments and meet online with mentors and students regularly to discuss the challenging topics.

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