



C-ID Descriptor

Physical Geology Laboratory

Descriptor Details

- **Descriptor Title:** Physical Geology Laboratory
- **Parent Descriptor:** Physical Geology with Lab GEOL 101
- **C-ID Number:** 100
- **Suffix:**
 - Lab Course (L)
- **Units:** 1.0
- **Date of Last Revision:** 10/12/2017 11:43:57 PM GMT+0000

General Description

The laboratory component to Physical Geology. Identification of rocks and minerals, topographic and geologic map exercises demonstrating the work of water, wind, ice and gravity and effects of tectonic activity.

Prerequisites

Physical Geology (100)

Corequisites

None

Advisories

No information provided

Content

(see Physical Geology)

Lab Activities

1. Topographic maps
2. Mineral identification
3. Relative and absolute dating
4. Geologic time
5. Plate Tectonics
6. Earthquakes
7. Volcanoes
8. Rock identification
9. Geological structures
10. Geological maps and cross sections
11. Surface water processes
12. Ground water processes
13. Coastal processes
14. Desert processes
15. Glacial processes
16. Field Trips

Objectives

At the conclusion of this course, the student should be able to:

1. Practically apply the principles of the scientific method
2. Demonstrate a conceptual understanding of fundamental concepts, principles, and interactions of Earth's systems applicable to the Geological Sciences.
3. Demonstrate an understanding of the Earth through the identification and evaluation of physical mineral samples.
4. Demonstrate an understanding of the Earth through the identification and evaluation of physical igneous, sedimentary and metamorphic rock samples.
5. Demonstrate an ability to communicate complex course concepts effectively in writing and diagrams.

6. Demonstrate the ability to read and interpret topographic and geologic maps and answer questions pertaining to geologic processes.

Evaluation Methods

Shall include multiple measures of performance that may include, but are not limited to:

- Lab reports and activities
- Quizzes
- Exams
- Field Trip reports

Textbooks

AGI & NAGT Laboratory Manual in Physical Geology (Prentice-Hall – Busch ed.)