# **G 100 : INTRODUCTION TO GEOLOGY**

#### **Transcript title**

Introduction to Geology

# Credits

4

#### **Grading mode**

Standard letter grades

#### **Total contact hours**

60

#### **Lecture hours**

30

#### Lab hours

30

#### **Recommended preparation**

MTH 060 or minimum placement Math Level 10.

#### **Course Description**

Introduces non-science majors to the study of the ever-changing Earth, with a focus on hands-on exploration. Designed for students with no prior knowledge of Geology. Field trips may occur during class time.

# **Course learning outcomes**

1. Construct the fundamental concepts of geology by observing and interpreting geologic information.

2. Apply geologic concepts to the world around them at a personal, community and global level.

3. Recognize the components of scientific inquiry, which includes creating and testing hypotheses as well as communicating results to others.

4. Practice scientific inquiry in order to discover answers to geologic questions.

5. Sustainability Outcome - Explain the interconnectedness of environmental, social, and economic systems in the context of geology.

# **Content outline**

- 1. The Nature of Science (a.k.a., The Scientific Process)
- 2. Earth Materials
- 3. Internal Earth Processes (such as plate tectonics, volcanism, earthquakes)
- 4. Surface Earth Processes (such as landforms, erosion, and water)
- 5. Impact of Earth Processes on People (such as geologic hazards or climate change)

# **Required materials**

Students are expected to use LMS and have regular access to a computer for class assignments.

# General education/Related instruction lists

• Science Lab