

G 162CV : FIELD GEOLOGY: CASCADE VOLCANOES

Transcript title

Cascade Volcanoes

Credits

3

Grade mode

Standard letter grades

Contact hours total

70

Lecture hours

10

Lab hours

60

Description

Explores Central Oregon's spectacular volcanic landscape. Meets for lecture followed by all-day field trip to volcanic sites in Central Oregon. Appropriate for non-majors.

Learning outcomes

1. Explain the fundamentals of volcanic processes, the volcanic landforms that result, and the hazards that volcanoes generate.
2. Apply the scientific skills of observation, interpretation, and hypothesis testing.
3. Connect volcanic processes and hazards to their personal lives, thereby becoming Earth science literate members of society.

Content outline

- Volcanic Rocks
- Plate Tectonics Volcanism in Central Oregon
- Magma Volcanic Eruptions
- Lava Flows Volcanic Landforms
- Hydrovolcanoes
- Volcanic Hazards Volcano Monitoring
- Supervolcanoes

Required materials

Field trips will occur in place of on-campus labs, with options to ensure accessibility for every student. Transportation will be provided.

Grading methods

Grades will be determined by exams, homework and field trip participation.

General education/Related instruction lists

- Science Lab