G 162CV: FIELD GEOLOGY: CASCADE VOLCANOES

Transcript title

Cascade Volcanoes

Credits

4

Grading mode

Standard letter grades

Total contact hours

80

Lecture hours

20

Lab hours

60

Course 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.

Course learning outcomes

- Explain the fundamentals of volcanic processes, the volcanic landforms that result, and the hazards that volcanoes generate.
 Apply the scientific skills of observation, interpretation, and hypothesis
- 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 and volcanism in Central Oregon
- · Magma and volcanic eruptions
- · Lava flows and volcanic landforms
- Hydrovolcanoes
- · Volcanic hazards and 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.

General education/Related instruction lists

· Science Lab