

G 162CV : CASCADE VOLCANOES

Transcript title

Cascade Volcanoes

Credits

3

Grade mode

Standard letter grades

Contact hours total

70

Lecture hours

10

Lab hours

60

Description

Consists of field studies of selected areas with emphasis on relationship between rock type, geologic setting and topography. Includes lectures, laboratory and weekend field trips. Topic areas include Cascade Volcanoes.

Learning outcomes

1. Students will develop an understanding of the basic concepts, processes, and analytic tools as in the science of geology. These include fundamental scientific theories such as plate tectonics, the origin of volcanoes and the role of rocks as history books for interpreting our planet. G162CV will expose students to a diversity of topics within the realm of geology with an emphasis on earth materials while exploring the relationships among other scientific disciplines. (ex: chemistry of rocks and minerals; physics of volcanic eruptions)
2. Through inquiry-based, hands-on laboratory activities and field experiences students will develop specific experimental skills and knowledge leading to the ability to identify, implement, and interpret scientific information as it relates to geology. Students will apply their knowledge and skills and employ logical scientific methodologies in a variety of numerical and descriptive problem solving situations.
3. Students will enhance their communication skills through oral and written activities such as volcanic eruption reports, test essay questions, interactive questioning and lab activities and field trip write-ups.
4. Students will be able to evaluate and articulate the application and relevance of specific geologic topics to the world around them at a personal, community, and global level. As a result, students will better understand the significant role of science, and geology in particular, in modern society. Moreover, students will become more scientifically literate citizens capable of formulating informed logical opinions regarding the application of science and technology to addressing such issues as geologic hazards.

General education/Related instruction lists

- Discipline Studies/Science Lab