GG 300 Volcanology

Fall 2012

Course Description and Syllabus

Course Information
Credits: 3
Meeting time and place: Tu-Th 10:30 – 11:45, POST 706
Instructor: Dr. Julia Hammer
   office: POST 617B
   office Phone: 956-5996
   email: jhammer@soest.hawaii.edu
Office hours: M 1-2:30 pm and by appointment

Required Texts

Optional Texts and Resources

Course Objectives
By the end of the semester you will be able
   • to explain how and why volcanoes erupt
   • to describe the relationship between volcanic landforms, deposits, and processes.
   • to identify and describe volcanic rocks and interpret their origins
   • to understand volcanoes in a plate tectonics framework
   • to understand volcanic hazards, hazard mitigation and volcanic monitoring
   • to work effectively and professionally in a group

Lecture
Use of the text is critical for getting the full benefit of lecture.
   • read the assigned text before class. Answer the assigned questions on the Laulima site under Tests and Quizzes.

We’ll be using interactive techniques, such as lecture tutorials and clickers.
   • Treat your clicker with care.
   • Work together to maximize your learning.

Some days we will have demonstrations that can be wet, sticky, and messy.
   • Wear appropriate clothing.
   • Help with setup and cleanup (please!)

We will work problems out in real-time together.
   • Bring a calculator and colored pencils/ pens to class.
To save paper, lecture notes will not be distributed. I will make every effort to upload the powerpoint presentation for each lecture within a couple of hours of class.

- Download the lecture presentation from the Laulima site, under Resources.

**Laulima**

As noted above, we’ll be making extensive use of the course management tool, Laulima. Navigate to the site: https://laulima.hawaii.edu/portal. There you will find announcements, a calendar of events, assignments, and tools for communicating with members of the class.

**Field Trips**

We are fortunate to be living in a volcanic landscape that features an active eruption nearby. We will take advantage of these first-hand learning opportunities, and take two field trips this semester: one to Koko fissure in Southeast Oahu, the other to the island of Hawaii. The tentative dates are Saturday, Oct 6 for Koko and Nov. 9, 10, 11 for the big island. There will be no cost for the Koko trip, provided we get volunteers to drive personal vehicles. The costs for the big island trip is estimated to be $250 per person, with a more precise value to be determined as we draw closer. This estimate includes the cost of rental vans and accommodation for two nights. You will be responsible for scheduling your flights, with time targets to be announced. We will stay together at an inn in Hilo with kitchen facilities, to keep food costs low.

**Grading**

Homework (including Field Trip exercises and movies) (40%)
Classwork (worksheets, group work) (20%)
Reading questions (administered using Laulima) (15%)
Final Exam (15%)
Lecture participation (clicker questions, attendance) (10%)