

# ESS 106 Living with Volcanoes

Winter Quarter 2022

MWF 1:30-2:20

Room 110 Kane Hall

**Instructor:** Mike Harrell, mharrell@ess.washington.edu, 206-543-0367 (a land line, so no text messages)

**Office Hours:** Wednesdays 2:30-3:20 PM in Canvas Chat, Canvas Mail, email, or 051 Johnson Hall

**Suggested Text:** I.M. Lange, *Volcanoes: What's Hot and What's Not on Earth and in Our Solar System*.

**Course Websites:** UW Canvas. Everything for the course, except for the occasional administrative email, will be either posted directly on the Canvas site or linked to it. Lecture slides will be posted in advance and Panopto recordings will become available shortly after each lecture.

**Course Content:** The lectures will begin with an introduction to the large-scale planetary structures and processes that give rise to volcanism, initially with an emphasis on Earth. We will continue with an examination of the types of volcanoes and their eruptive styles and products, followed by a consideration of specific volcanoes and the threats they pose, along with the resources they provide. Next we shall consider historic and prehistoric volcanic activity and the possibilities for predicting future eruptions, then conclude with an overview of volcanism elsewhere in the solar system.

**Examinations:** The first examination will be on Wednesday, 26 January, 1:30-2:15 PM, and is multiple-choice. The exam may instead be taken twelve hours later. The second examination on Wednesday, 16 February, 1:30-2:15 PM, will be of similar format, focusing on the material introduced after the first exam and again may instead be taken twelve hours later. The final examination on Monday, 14 March, 2:30-4:20 PM, will be cumulative but with an emphasis on material introduced after the second exam. As with the first two exams, it may instead be taken twelve hours later. Please take each exam at whichever time is more convenient for you. Each exam may only be taken once. All exams will be administered via Canvas.

**Grading:** First exam 25%, second exam 25%, final exam 40%, and weekly discussion 10%. In calculating the contribution from weekly discussions, each person's single lowest score will be dropped. The standard UW grading system will be employed: [www.washington.edu/students/gencat/front/Grading\\_Sys.html](http://www.washington.edu/students/gencat/front/Grading_Sys.html)

**Accommodation:** Washington state law requires that UW develop a policy for accommodation of student absences or significant hardship due to reasons of faith or conscience, or for organized religious activities. The UW's policy, including more information about how to request an accommodation, is available at Religious Accommodations Policy (<https://registrar.washington.edu/students/religious-accommodations-request/>). Accommodations must be requested within the first two weeks of this course using the Religious Accommodations Request form (<https://registrar.washington.edu/students/religious-accommodations-request/>).