

# Capstone Projects

[G148\\_2016.4\\_CascadiaRiskAssessmentProject.docx](#) To meet the following two outcomes of the G 148 course at PCC:

*Students who successfully complete this course should be able to:*

- Use the geologic history of earthquake and volcanic activity in the Pacific Northwest to assess the likely magnitude and frequency of future earthquake and volcanic activity in the Pacific Northwest.
- Access volcano and earthquake science information from a variety of sources, evaluate the quality of this information, use this information to evaluate the hazards and risks posed by earthquakes and volcanoes to a specific geographic area, examine how these risks can be managed, and effectively communicate the results of this analysis to others.

PCC instructors have developed a variety of capstone projects requiring the students to investigate the hazards and risks associated with volcanoes and earthquakes for particular student selected locations in the Pacific Northwest. These assignment have been inspired in part by the Project InTeGrate module [Map Your Hazards!](#)

## **Cascadia Risk Assessment Project**

Students evaluate the hazards and risks posed by volcanoes and earthquakes to a Pacific Northwest population center. Students

- create hazard, vulnerability, and risk maps for their area
- consolidate their results in an electronic poster highlighting what they have learned
- present their poster to their classmates and answer questions from their class mates about their poster (about 15 minutes per presentation)
- summarize their findings in a one page typed double spaced abstract
- work in small groups.

[Project Description](#)   [Poster Template](#)   [Sample Maps for Seaside Oregon](#)