

Lecture-Level learning goals for *Volcanoes*
UBC EOSC 114, *The Catastrophic Earth-Natural Disasters*

Day 1

- What is magma?
- Why does magma erupt?
- Why is magma important?
- Why are gases are critical?

Day 2

- Why do volcanoes occur where they do?
- What are the different types of volcano?
- Why are there different types of volcano?

Day 3

- Estimate the SIZE of eruptions.
- Compare different types of eruption:
 - LAVAS
 - PYROCLASTIC FALL
 - PYROCLASTIC FLOWS
 - LAHARS (next class)
- Use them to rank the danger of probable hazards.

Day 4

- have examined the major volcanic hazards:
 - LAVAS (Wednesday)
 - PYROCLASTIC FALL (Wednesday)
 - PYROCLASTIC FLOWS
 - LAHARS
 - SECTOR COLLAPSE
 - POISONOUS GASES
- and used this knowledge to MAP major hazards around different volcanoes.

Day 5

- describe and assess different volcano monitoring techniques
- discuss the way BC's volcanoes are monitored
- evaluate hazards and risks associated with an eruption from Mount Baker