

## GEO112 Dynamic Earth – A New Zealand Perspective

### Lecture topics (2-8 lectures each):

- Plate tectonics, rock deformation, and earthquakes
- Minerals
- Magmas, igneous rocks, and volcanoes
- Sedimentary processes and rocks
- Groundwater
- Metamorphic processes and rocks
- Mineral resources
- Landslides (with field trip)
- Isotope dating and tracing
- Earth history
- Geology of New Zealand

### Field trips (one-day on weekend):

- Geological relations in the field
- Dunedin Volcano
- Dunedin sedimentary sequence

### Assessment:

- Laboratory-related exercises
- Field trip questionnaires
- Numeracy exercises
- Written assignment
- Class exam
- Final exam