Geology of Earthquakes is a field-based course that examines the causes and consequences of earthquake activity in the Northern Intermountain Seismic Belt (NISB) of western Montana. We will study landforms that tell the story of geologically recent earthquake activity in the region (i.e., neotectonic deformation), and investigate new and old building construction practices in the Bozeman area for their potential “performance” during an earthquake. The course will feature a day-long trip to the famous Hebgen Lake earthquake site in the southern Madison Range.

Schedule:
Depart at 0730 from our designated location (south entrance to the Student Union Building, unless you hear otherwise). This will be a long day in the field, so expect to return around 6:00 p.m. Bring the following:
- Hiking shoes, day pack, lunch, snacks, water bottle (plenty of fluids)
- Prepare for variable weather conditions (ranging from very hot and sunny to cold and rainy); therefore, bring a jacket and/or rain gear, sun glasses, cap or sun hat, and any personal items needed for a day-long field trip
- Epi-pen for allergic reactions to bee stings, etc. (if prescribed by your personal doctor)
- Be prepared to take detailed, neat field notes at each stop; therefore, bring a durable field notebook with water-proof pens and/or mechanical pencil

Course goals:
- Field-based learning experience in geology
- Develop an understanding of geologic principles through field observation
- Develop an understanding/recognition of earthquake-generated landforms

Expectations:
- Take good field notes
- Pay attention and participate
- Be safe and pay attention to traffic (at roadside stops) and watch your step when hiking

Deliverables:
- Field notes
- Typed (and illustrated) in-depth report on a topic assigned at the end of the day by your professor