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GEO 231.01: Geosciences Field Methods

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This course introduces students to a variety of field methodologies routinely used in the collection, processing, and interpretation of geoscientific field data.

Each week we will conduct a field exercise involving standard geoscientific field techniques. You will need a good weather-proof field notebook and a hand lens.

Evaluation: All exercises, including field final, have equal weight.

**Approximate schedule (depending on weather):**

1-29: Introduction/Geologic setting of western Montana

2-5: Topographic map reading, locating (Campus)

2-12: Geologic map reading (Campus)

2-19: Measuring structures (Kim Williams Trail)

2-26: Measuring and describing strata (Kim Williams Trail)

3-5: Making a geologic map (North Hills)

3-12: Making a geologic map (North Hills - continued)

3-19: Mapping fluvial terraces (Missoula)

3-26: Mapping glacial lake features (Missoula)

4-2: SPRING BREAK

4-9: Ground water (Campus)

4-16: Field trip to Bearmouth: Mapping igneous rocks

4-23: Field trip to Rattler Gulch: Stratigraphy, collecting fossils

4-30: Field trip to Rattler Gulch: Structural geology, cross-section

5-7: Field final