ERTH 516 – Northern Rocky Mountain Geology
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Daily schedule:
Depart each morning at 0800 from our designated location. Expect to return each day by early- to mid- afternoon, depending on weather conditions; things to bring:
- 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

- **Monday** – Laramide Mountain building and Basin-Range extension of the crust (Bridger Canyon and the “M”)
- **Tuesday** – ancient crustal rocks in Gallatin River Canyon superimposed by younger geology of the Big Sky / Lone Mountain area
- **Wednesday** – interpreting Eocene volcanic deposits in Hyalite canyon
- **Thursday** – Igneous geology of the Boulder batholith and Butte mining district
- **Friday** – Hike to the summit of Sacagawea Peak in the Bridger Range (trekking poles are highly recommended)

Course goals:
- Field-based learning experience in geology
- Develop an understanding of geologic principles through field observation
- Develop an understanding of how geologic history (particularly of this region) is constructed through field observations

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 + daily exercises as per instructions
- Typed (and illustrated) in-depth report on one geologic locality or feature that we visited this week:
  - **What was the most important or interesting thing you learned this week? Describe this in detail and explain what you learned from it.**
  - **Is there something you can take from this week-long geology field class back to your classroom? What, if anything, can you incorporate from this course into your own teaching?**