Geology of the Yellowstone-Teton Region

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GEOL 1240 Geology of the Yellowstone-Teton Region is offered as a 1 credit, 3-day trip each September, through Central Wyoming College (CWC). Each year the itinerary varies and students may earn 2 credits toward graduation by repeating the course. CWC Student Activities covered the cost of transportation for this year’s trip. Students participating on these trips do not need to be geosciences majors, although this year six of the seven involved have a strong interest in a geoscience-related career.

In 2011, the emphasis was on the Teton area and base-camp was held at the AMK Ranch. The 2011 Itinerary included:

- Dubois – Wind River/Absaroka Overlook
- Togwotee Pass – Absaroka Volcanics
The wet weekend was a nice relief from the summer heat. Our first exercise at the Harebell Formation Conglomerate consisted of field observations and a “geologic cartoon” matching exercise that requires only observations and logic (no prior geology knowledge).

![Figure 2. Students collecting rocks from sediment deposits.](image1)

After making observations on site, we proceeded to the Grand Teton NP Visitor’s Center to discuss and review the exercise. Always being prepared with an alternative site is good, as we were able to continue our discussion under the protection of the covered walkway around the center!

![Figure 3. Grand Teton National Park Visitor’s Center.](image2)

The weather cleared enough for an informative hike along the Teton Fault, above String Lake.

The highlight of our trip was a boat ride on Jenny Lake to the Inspiration Point trailhead where we discussed the different types of ancient “hard” rocks that make up the bulk of the Tetons. It was a beautiful fall day that left us all inspired to learn more about the area.

We were also able to compare and contrast the Teton area geology with some of the hydrothermal features of Yellowstone, including some first-time viewing of an Old Faithful eruption.

The final day of the trip focused on geologic hazards, with visits to Signal Mountain for an overview of the Teton Valley landscape, a brief stop at the Jackson Lake Dam and a final exercise at the Gros Ventre Landslide.

We are grateful for the use of the UW-NPS Research Station as our base camp for this trip.