

**Geologic Field Excursion:
The Big Horn Mountains**

<http://web.mac.com/sukismaglik/CWC/>

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Office hours: as posted

Field trip dates: Friday, Sept. 25 thru Sunday, Sept. 28

Course description: Field excursion around and to the Big Horn Mountains of Wyoming. Topics include rock types, tectonics, geologic time, stratigraphy and surface processes. Participants must be in good physical condition and be willing to live in sometimes primitive conditions. Field excursions will include several miles of on-foot exploration. Separate field trip fees will apply.

Texts: Required: Field Trip Guide provided by instructor.

Recommended:

Cvancara, Alan M., 1995, *A Field Manual for the Amateur Geologist*, John Wiley & Sons, Inc., 335 p.

Spearing, Darwin R., and Lageson, David, R., 1988, *Roadside Geology of Wyoming*, Mountain Press, 288 p.

Objectives: Upon completion of this course you should be able to:

1. identify rock types and interpret their mode of formation;
2. summarize the regional geology and geography of the Wind River area;
3. discuss the dynamics of igneous intrusion and regional metamorphism;
4. explain the hydrology and cave formation of the Wind River area;
5. describe the geology and geography of the Wind River Range, and the processes that produced them.

Expectations: You are expected to **attend all field lecture sessions**. You are expected to pay attention in class and to respect your instructor and classmates by not "chatting" during class time, especially at outcrops. You must take field notes and ask questions for clarification. You are expected to pull your weight with regard to camp chores and duties. If we all work together, they will not be great. Your participation in all aspects of this course will be worth 60% of your final grade. The participation grade you receive will be according to the following:

100% - fully participating by always paying attention, always acting in a safe and considerate manner, usually taking notes, asking questions, and doing chores w/ few complaints.

80% - good participation by mostly paying attention, always acting in a safe and considerate manner, often taking notes, sometimes asking questions, and doing chores w/ few complaints.

60% - adequate participation by paying attention more often than not, always acting in a safe and considerate manner, rarely taking notes, rarely asking questions, and complaining while doing chores.

40% - poor participation by not paying attention or by acting in an unsafe or inconsiderate manner, rarely taking notes, not asking questions, and complaining or not doing chores.

0% - not attending the trip.

Assessments: You must keep a field journal with copious notes at every stop. You must also take and annotate photos at every stop, using one page per photo. You will print out page size photos upon you return and attach them to the appropriate page. This journal will be worth 40% of your grade in this course. Grading rubric is available on course website.

Field Trip: We will be camping for three nights on this trip. The Forest Service campgrounds do not take reservations for tent camping. Therefore we may need to make primitive camps within the National Forest land if the campgrounds are full. Come prepared with the proper equipment (see separate list) and attitude. In an effort to conserve resources and time, and to enhance safety on the roadside, we will try to have as many people as possible travel in as few vehicles as possible.

You must sign a liability waiver to participate in this course. All students driving any vehicle on this trip must have a valid driver's license and liability insurance coverage as required by Wyoming law. In addition, a Defense Driver's certificate is required.

Trip details are provided in the accompanying letter and equipment list.