Edge of the Rockies

The new OU Bartell Field Camp is located on the northeastern edge of the Wet Mountains and overlooks the Cañon City Embayment, a structural reentrant in the Colorado Front Range. Snow-covered Pikes Peak is visible to the north and the Great Plains to the east. The area is an ideal geological field laboratory – the Phanerozoic section and faults associated with the mountain front are beautifully exposed and available for study. Combined with the near-perfect weather and closeness to a variety of outdoor activities and metropolitan Denver, it’s no wonder OU students have been coming here since 1950!

Course Curriculum

**GEOL 4136**, Field Geology, is a five-week six-credit undergraduate course that begins May 23, 2011. The course has four principal goals. 1. To give students the ability to observe and record field data – to “read the rock record” – and to interpret those data while at the same time keeping their observations and interpretations separate. 2. To give students an appreciation for geologic field work in all its forms – mapping, section measuring, collecting geophysical data, etc. – and the limitations of field work and field data. 3. To foster in students a sense of teamwork, which most of them will deal with throughout their professional careers. 4. And finally, to give students the opportunity to practice the geological techniques and see the geological concepts they have been learning about since becoming majors.

Following a brief introduction to the regional stratigraphy and structure of the Cañon City area and the field techniques they will be using, the students embark on a number of field exercises varying from detailed to reconnaissance and stratigraphic to structural. Classic (Brunton, pace, Jacob’s staff) and modern (GPS) field techniques are employed to map on topographic maps and aerial photographs and images. Thoughtful and thorough descriptions of the rock units and their contacts are key and are emphasized. The curriculum includes one major section-measuring exercise and constructing three geologic maps of increasing complexity, plus a number of one-day exercises. A unique aspect of the OU camp is its field geophysics component in which students collect and interpret geophysical data. All the projects take place within a half-hour of camp. Field trips to examine aspects of Colorado geology not immediately available near Cañon City include the Leadville and Cripple Creek mining districts, the Pikes Peak batholith, Florissant National Monument and the Thirty-nine Mile Volcanic Field, and the Laramide stratigraphy of the Raton and Denver Basins.

**GEOPHYSICS 4133** is a three-week three-credit hour course that begins on May 23, 2011. This is the capstone course in geophysics and provides a synthesis of geophysical and geological concepts learned during the degree program. Research methods in geophysics are applied to study diverse topics including environmental contamination, tectonics, and geological structure. Research methods include literature review and synthesis, field data collection, data analysis, and a final interpretation and presentation of results. Students who enroll in either course are expected to have completed courses in physical geology, mineralogy, petrology, palentontology, stratigraphy, and structural geology.

Courses are physically demanding, and students should be in good health and capable of strenuous hiking in rugged terrain while carrying a daypack and field gear. Accommodations on the basis of disability are available by contacting (405) 325-3253, 100 E Boyd St, Ste 710, Norman OK 73019-1009 as soon as possible. The University of Oklahoma is an equal opportunity institution.

Travel and Accommodations

The OU geology field camp is located about five miles outside of Cañon City, Colorado and about one hour from Colorado Springs and its major airport. Transportation to camp from Norman is provided, although most students prefer to drive their personal cars. Transportation to camp from the Colorado Springs airport will be provided for students preferring to fly.

The new OU camp has been under construction since 2010 and will be finished by May 2011. It consists of a log dining hall/kitchen/office, study hall, six 4-student and four 6-student cabins, two bathhouses, as well as faculty/staff cabins.

Meals are provided on field days and leftovers and snacks are available on “off” days. Many restaurants are available in Cañon City for students who want a break from being on the mountain.

Cost

The total fees for each course are approximately:

- Resident students: Geology 4136 - $5500  Geophysics 4133 - $2200
- Nonresident students: Geology 4136 - $5600  Geophysics 4133 - $3200

The camp fees are listed are approximations and the actual fees will be reflected on your bursar bill at the time of enrollment. The fees listed here cover tuition and room and board.

For more information, please contact:

Field Camp Director • ConocoPhillips School of Geology and Geophysics
University of Oklahoma • Norman, OK 73019-1009 • Or call 405-325-3253

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