

### Geology of Utah's National Parks • GE 5130 • June 14–July 1, 2011

This course consists of fourteen days of field-based activities conducted in and around the national parks and monuments of eastern Utah—areas internationally recognized for their outstanding geology. Using maps, compasses, GPS, rock and mineral identification, geomorphology, subsurface geology, fossils, and basic engineering principles, teachers learn how climate, sea level, and mountain building change the earth's landscape through time, and how geologists recognize the record of change in rocks.

The course is mainly about geology, but it's also about teaching and learning. Instructors model and demonstrate the effectiveness of several innovative teaching styles as they train participants to use a process-based approach in earth science. Recognizing that people have a variety of learning styles, this course tries to accommodate individuality.

Participants need no prior experience in earth science. Participants in the Geology of Utah's National Parks Course will meet in Denver, Colorado, on June 14, 2011, and course instruction will begin on June 15. Participants will camp during the course, collaborating with staff to prepare group meals. The group returns to Denver on June 30, 2011 and departs July 1.

**Cost:** Resident/Non-Resident - \$800 registration fee. This cost covers \*MTU tuition, travel during the course, camping and park-entry fees, food, group camping equipment, textbooks, and technical equipment. Participants provide personal clothing, camping gear, and travel to and from Denver.

**Credit:** 4 graduate credits through Michigan Technological University's Department of Geological and Mining Engineering and Sciences

\* Cost has been reduced through the generous support from the Michigan Space Grant Association help to reduce official MTU tuition (2010/11 Official Applied Science Education Graduate Resident and Non-Resident \$431 per credit).



