

### **Geology of Utah's National Parks • GE 5130 • June 14–July 1, 2014**

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. Participants learn to determine how climate, sea level, and mountain building change the earth's landscape through time. Participants practice using compasses, GPS, and maps, identifying rocks and minerals, and using engineering principles to explore geologic processes. At the end of the course, participants construct a geologic map of a portion of Dinosaur National Monument.

The course is mainly about science, but it's also about teaching and learning. Instructors model and demonstrate the effectiveness of several teaching styles as they train participants to use a process-based approach in science. This course emphasizes the importance of accommodating a variety of learning styles (e.g., visual, tactile, analytical, conceptual). Throughout the course, the scientific method is used to promote the development of in-depth understanding.

**No prior experience in earth science is needed!** Participants in the Geology of Utah's National Parks Course will meet in Denver, Colorado, on June 14, 2014 and the first full-day of instruction will begin on June 15. Participants will camp during the course, collaborating with others (including the instructors) to prepare group meals. The group returns to Denver on June 30, 2014, and participants can depart on July 1, 2014.

**Cost:** Resident/Non-Resident - \$900 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 (2013/14 Official Applied Science Education Graduate Resident and Non-Resident is \$514 per credit).





## Geology of Utah's National Parks GE 5130 Participant Application

- Please type or print in ink.
- To apply for the course, submit a completed copy of this application form along with a statement (not to exceed 1 page, double-spaced) indicating why you are interested in taking the course and how the course will support your career.
- Applications will be accepted until **March 1, 2014**, but **enrollment is limited and early applicants will be given priority consideration**. Applications must be accompanied by a \$100 deposit (payable to Michigan Tech).

Name \_\_\_\_\_  
First \_\_\_\_\_ Middle \_\_\_\_\_ Last \_\_\_\_\_

Home address \_\_\_\_\_  
Street \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Date of birth \_\_\_\_\_ SS# or MTU M # \_\_\_\_\_

Phone/Fax: Evening \_\_\_\_\_ Day \_\_\_\_\_ Fax \_\_\_\_\_

Email: Work \_\_\_\_\_ Home \_\_\_\_\_

School name and district \_\_\_\_\_

School address \_\_\_\_\_  
Street \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Current grades and subjects taught \_\_\_\_\_

Degree(s) earned and areas of certification/endorsement \_\_\_\_\_

By signing below, you certify that you agree to do all of the following:

- 1) Read and respond to all preparatory materials and communications prior to the course.
- 2) Consent to the release of my name, address, and email address to other participants in the course.
- 3) Fully participate in each day of the course and meet the requirements listed in the course syllabus.
- 4) Agree to allow publication of my final project in some form.
- 5) Consent to the release of my photograph for publications.
- 6) Agree to allow my written work submitted in the courses to be used to evaluate the course's effectiveness.

Signature \_\_\_\_\_ Date \_\_\_\_\_

Submit the application, supporting statement, and deposit to:

Direct questions about course to:

**Bonnie Gagnon**  
Graduate School  
Michigan Technological University  
1400 Townsend Drive  
Houghton, MI 49931-1295

**Dr. Chris Wojick**  
Department of Civil and Env. Engineering  
Michigan Technological University  
Phone: 906-487-1623  
Email: [cwojick@mtu.edu](mailto:cwojick@mtu.edu)

Applicants will be notified as soon as participant selections are made (**no later than March 15, 2014**). Participants whose applications are approved will be provided with information regarding course registration and payment. The \$100 deposit will be refunded to those who are not selected to participate and will be applied to the registration fee for those who are selected. Full payment is due on or before **April 15, 2014**.

Additional scholarship funding may be available. If interested, provide demographic information below.

Gender: \_\_\_\_\_ Male \_\_\_\_\_ Female  
Race/Ethnicity: \_\_\_\_\_ African American/Non-Hispanic  
\_\_\_\_\_ Asian American/Asian  
\_\_\_\_\_ Native Pacific Islander  
\_\_\_\_\_ Multiracial

\_\_\_\_\_ American Indian/Alaskan Native  
\_\_\_\_\_ Hispanic American/Latino  
\_\_\_\_\_ White/Non-Hispanic