

# Minnesota State University Moorhead

## GEOS 450: Field Geology

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites:

GEOS 115 - Physical Geology AND GEOS 315 - Sedimentology and Stratigraphy AND GEOS 302 - Mineralogy AND GEOS 303 - Petrology AND GEOS 370 - Structural Geology and Mapping

Corequisites: None

MnTC Goals: None

This is a three week course that will be offered during the summer. Students will be exposed to the basics of geologic reconnaissance, measurement of stratigraphic sections, mapping on aerial photographs and topographic maps, and construction of structure sections. The course will also introduce students to the regional geomorphology, stratigraphy, and structure through South Dakota, the Black Hills, Wyoming, Montana, Yellowstone Park, and Theodore Roosevelt Park. An additional fee will be assessed to students to cover the cost of lodging, food, and transportation.

**B. COURSE EFFECTIVE DATES:** 01/02/2002 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Geologic reconnaissance
2. Measuring and characterizing Stratigraphic Sections
3. Field mapping

### D. LEARNING OUTCOMES (General)

1. Students will be able to characterize the geology of a particular region or area.
2. Students will be able to interpret the significance of a stratigraphic section.
3. Students will be able to interpret and construct professional geologic maps of a particular area and region.

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted