

# Minnesota State University Moorhead

## GEOS 301: Archaeological Prospection

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites:

ANTH 115 - Introduction to Archaeology AND GEOS 115 - Physical Geology

Corequisites: None

MnTC Goals: None

Examination of geophysical prospecting methods available for archaeological research. Emphasis on the conceptual basis of different prospecting methods and their application in archaeological and geotechnical studies. Hands-on experience with geophysical instruments. Same as ANTH 301

**B. COURSE EFFECTIVE DATES:** 06/03/2002 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Introduction
2. Resistivity
3. Magnetometry
4. Magnetic Susceptibility
5. Electromagnetic Conductivity
6. Seismic Refraction, GPR, & Other Methods
7. Issues

### D. LEARNING OUTCOMES (General)

1. Demonstrate a conceptual understanding of major geophysical methods
2. Appreciate in general the prospects and problems of various methods
3. Use appropriate strategies and tools to collect, process, and interpret geophysical data
4. Understand how geophysical methods are used to explore and manage archaeological properties and in geotechnical research

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted