

# Minnesota State University Moorhead

## GEOS 210: Cartography

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: Goal 05 - Hist/Soc/Behav Sci

This course covers elements of map design including projection from globe to map, map composition, graphic tools of mapmaking, and different map types and their origins, uses, and their underlying strengths and limitations. Students will gain experience with map construction from both traditional pen and ink production to the modern output of Geographic Information Systems. MnTC Goal 5.

**B. COURSE EFFECTIVE DATES:** 02/27/2014 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. Go into further detail on projecting the globe onto a flat, two dimensional map including the geometry, the levels of distortion, and the purpose of various projections.
2. Identify and use many elements of map design and production.
3. Identify different map types and their appropriate uses.
4. Identify the limitations and strengths of various aspects of rendering a map legible, useful and artistically pleasing.
5. Understand the basic statistical background of various map types, data classification, and why they are important.

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

Goal 05 - Hist/Soc/Behav Sci

1. Employ the methods and data that historians and social and behavioral scientists use to investigate the human condition.
2. Examine social institutions and processes across a range of historical periods and cultures.
3. Use and critique alternative explanatory systems or theories.
4. Develop and communicate alternative explanations or solutions for contemporary social issues.

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted