

Minnesota State University Moorhead

CM 200: Construction Surveying

A. COURSE DESCRIPTION

Credits: 1

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: CM 200L

MnTC Goals: None

An introduction to the processes and calculations used by construction surveyors, including measuring distances and angles, direct differential leveling, locating line and grade on a construction site, and processes specific to construction surveying.

B. COURSE EFFECTIVE DATES: 03/04/2014 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Students will develop an understanding of surveying theory principles, definitions, and practices.

D. LEARNING OUTCOMES (General)

1. Read and interpret standard note forms in a surveyor's field book.
2. Measure and lay out horizontal distances with a steel tape.
3. Determine the azimuth and bearing of a line given the measured angle to a reference line.
4. Lay out a building footprint within a defined boundary.
5. Determine the relative elevation of a point using direct differential leveling.
6. Determine the elevation and location for specified points on a job site.
7. Use and interpret construction staking, including batter boards, slope stakes, and offset stakes.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted