

Minnesota State University Moorhead

CM 200L: Construction Surveying Lab

A. COURSE DESCRIPTION

Credits: 1

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: CM 200

MnTC Goals: None

Hands-on experiences with transit, level, and total station. Measuring distances and angles, direct differential leveling, and construction site layout. Concurrent registration required in CM 200.

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

C. OUTLINE OF MAJOR CONTENT AREAS

1. Students will practice surveying techniques during lab sessions. Student teams will apply surveying skills by completing a building layout lab.

D. LEARNING OUTCOMES (General)

1. Determine the elevation of points relative to a defined benchmark.
2. Lay out construction locations relative to a defined boundary and benchmark.
3. Measure distances with tape and total station.
4. Measure horizontal and vertical angles with digital transit and total station.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted