

# Minnesota State University Moorhead

## CM 425: Equipment Productivity and Analysis

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 2

Lab Hours/Week: 1

OJT Hours/Week: \*.\*

Prerequisites:

- CM 325 - Heavy/Highway Construction Materials AND CM 230 - Estimating I: Quantity Survey

Corequisites: None

MnTC Goals: None

A study of planning, estimating, and managing performance of commonly recognized construction equipment. This course will emphasize the factors that govern or control equipment productivity on construction projects. Students will also study operating and ownership costs.

**B. COURSE EFFECTIVE DATES:** 02/10/2001 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Ethics
2. Products, systems, and interface issues
3. Equipment applications and utilization
4. Comparative Cost Analysis
5. Assembly techniques and equipment selection
6. Labor and equipment

### D. LEARNING OUTCOMES (General)

1. Design/Engineering Concepts and Associated Math
2. Management Concepts & Philosophies
3. Construction Materials and Methods
4. Estimating, Plan Reading and Bid Process
5. Budgeting/Cost Accounting, Cost Control & Close-out
6. Scheduling & Project Control

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted