

# Minnesota State University Moorhead

## CM 325: Heavy/Highway Construction Materials

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 35

Lab Hours/Week: 20

OJT Hours/Week: \*.\*

Prerequisites:

MATH 229 - Fundamentals of Applied Mathematics; OR

MATH 234 - Introduction to Probability and Statistics

Corequisites: CM 326

MnTC Goals: None

Course subjects include a study of the basic engineering properties of soils and compaction applications. Other topics include how concrete and asphalt are used as construction materials and analysis of their engineering properties. Design and construction applications of flexible and rigid pavements are presented.

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

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Soil Mechanics
2. Analysis and Design of Construction Systems, Civil
3. Construction Methods and Materials, Composition and Properties

### D. LEARNING OUTCOMES (General)

1. The student can demonstrate knowledge of the science of materials and methods of construction as they apply to the 16 Construction Specifications Institute (CSI) Divisions designated for the construction industry.

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted