CMAE 1510: Print Reading

A. COURSE DESCRIPTION

Credits: 2
Lecture Hours/Week: 2
Lab Hours/Week: 0
OJT Hours/Week: *.*
Prerequisites: None
Corequisites: None
MnTC Goals: None

This course will give students an understanding of basic mechanical drawing principles. Topics include the alphabet of lines, arrangement of views, orthographic projections, scaling, dimensioning, tolerancing, and symbols. Students will read and interpret mechanical drawings. (Prerequisite: none) (2 credits: 2 lecture/0 lab)

B. COURSE EFFECTIVE DATES: 02/20/2020 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Drawings and prints
2. Dimensioning techniques
3. Tolerancing application
4. Machining details
5. Section views

D. LEARNING OUTCOMES (General)

1. Interpret types of multi-view drawings within manufacturing
2. Evaluate drawings based on information in the title block, notes, and tables
3. Explain line types, symbols, and dimensions on mechanical drawings
4. Apply tolerances to determine dimensional limits on drawings

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted