

Minnesota State College Southeast

MDAD 1250: Print Reading for CAD Design

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This is essentially a blueprint reading course that focuses on drafting essentials. Content will include 2d view projection, line types, dimensions, tolerances, sections, auxiliary views, and all the other basics required to understand a basic engineering drawing. This course lays the building blocks for the remainder of the Drafting and Design courses. Special Note: The student will be required to either scan and send in assignment sheets or send them through the mail to arrive on or prior to the posted due dates. (Prerequisite: none) (3 credits: 3 lecture/0 lab)

B. COURSE EFFECTIVE DATES: 01/24/2012 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Analyze Orthographic Projection (Third-Angle Projection)
2. Analyze Single-view Drawings
3. Analyze Dimensioning Systems
4. Analyze Detail Drawings
5. Analyze Drawing Notes
6. Analyze Line Types and their Precedence
7. Analyze Isometric Sketching
8. Analyze Tolerances
9. Analyze Sectional Views
10. Analyze Thread Systems
11. Analyze Basic Manufacturing Processes (Hole Making, Chamfers, Hardness Testing)
12. Analyze Metric Drawings
13. Analyze Auxiliary Views
14. Discuss Geometric Tolerancing
15. Review Spur Gears
16. Analyze Weldments

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted