

Minnesota State College Southeast

MDAD 1253: Working Drawings 2 for CAD Design

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites:

This course requires the following prerequisite

MDAD 1252 - Working Drawings 1 for CAD Design

Corequisites: None

MnTC Goals: None

The course will provide the student with a more advanced understanding of what is required of mechanical technical drawings. It is a project related course that will enhance skills gained in Working Drawings I. The projects will be diverse ranging from tool drawings to production assemblies. Special note: The student is required to purchase a student version of Solidworks, Inventor, or equivalent 3 d software. (Prerequisites: MDAD1252) (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. Complete technical drawings that meet industry standards
2. Analyze and complete assembly drawings
3. Analyze piece part drawings
4. Create weldment drawings
5. Complete sheet metal design problems
6. Analyze dimensioning techniques
7. Apply standard tolerances
8. Apply standard parts
9. Apply thread systems to mechanical drawings
10. Apply standard fits
11. Apply proper finishes

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted