

Minnesota State College Southeast

MDAD 1214: 3D Mechanical CAD

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 1

Lab Hours/Week: 4

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course covers 3D functions of AutoCAD and Mechanical Desktop. Attention will be given to making 3D AutoCAD drawings using Mechanical desktop. The user coordinate system, surfacing commands, solid modeling, part and assemble creation and 3D approaches will be covered. (Prerequisite: MDAD1202 or equivalent) (3 credits: 1 lecture/2 lab)

B. COURSE EFFECTIVE DATES: 10/15/1998 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Create assemblies
2. Create bill of materials
3. Create drawing and parts
4. Define parametric
5. Describe the difference between assemblies and drawings
6. Effectively operate inventor
7. Apply constraints
8. Select correct views
9. Analyze 3D theory
10. Analyze viewing of 3D drawings
11. Create sheet metal parts

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted