A. COURSE DESCRIPTION

Credits: 3
Lecture Hours/Week: 1
Lab Hours/Week: 2
OJT Hours/Week: *.*

Prerequisites:
MEDR 1601 - Engineering Drawing I

Corequisites: None

MnTC Goals: None

This unit covers section views, primary and secondary auxiliaries, dimensioning, and tolerancing as they apply to mechanical drawings. These are the basics needed to guarantee that mating parts fit and function when they are designed. A laptop computer is required. Prerequisite: MEDR1601. Corequisite: MEDR1617.

B. COURSE EFFECTIVE DATES: 05/17/1999 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Analyze auxiliary views.
2. Create and analyze types of section views.
3. Identify different manufacturing operations.
4. Sketch oblique views and lines.
5. Create and detail multi-view drawings.
7. Analyze drawing and castings.
8. Plot and create irregular curves.
9. Identify 1st and 3rd angle projection.

D. LEARNING OUTCOMES (General)

1. The learner will analyze and draw section views.
2. The learner will analyze and draw auxiliary views and analyze drawings for secondary operations.
3. The learner will demonstrate the skills needed to draw 1st and 3rd angle projection using appropriate views.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted