MDAD 1202: Fundamentals of Drafting

A. COURSE DESCRIPTION

   Credits: 5
   Lecture Hours/Week: 1
   Lab Hours/Week: 8
   OJT Hours/Week: *.*
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None

   This course will enable the student to develop complete sets of engineering drawings. Sketching, orthographic views, sections, dimensioning, and tolerancing will be covered. Fastening systems will also be covered. This course is meant to help lay the building blocks for the remainder of the Drafting and Design course. It is meant to be taken in conjunction with or after AutoCAD. (Prerequisite: None)
   (5 credits: 1 lecture/4 lab)

B. COURSE EFFECTIVE DATES: 04/27/1998 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

   1. Analyze technical drawing
   2. Analyze manual drafting equipment
   3. Analyze manual drafting procedures
   4. Analyze technical lettering
   5. Analyze technical sketching
   6. Analyze geometric techniques
   7. Analyze graphic communication
   8. Analyze multiview drawings
   9. Analyze auxiliary views
  10. Analyze sectional views
  11. Analyze descriptive geometry projections
  12. Analyze ASME dimensioning techniques
  13. Analyze ASME tolerancing techniques
  14. Analyze orthographic projection
  15. Apply standard parts
  16. Apply standard engineering data
  17. Analyze design of springs
  18. Analyze thread systems
  19. Create assemblies
  20. Prepare formal drawings from layouts
  21. Prepare formal drawings from sketches
  22. Prepare formal drawings from verbal instructions
E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted