DFT 1201 Final Exam Study Guide

Review the following concepts for the exam:

1. Dimensioning practices:
   a. Know the ANSI standard dimensioning practices
      i. Technique of lines (how to use and place extension lines, dimension lines, and text)
      ii. Placement (ANSI standard) of dimension lines, extension line and arrows and text
      iii. Choice of dimensions according to functionality and manufacture of part
      iv. Know what baseline and chain dimension styles look like
      v. Finish symbols
      vi. Weld Symbols
      vii. Datum references

2. Know the following Tolerance terms
   A) Tolerance
   B) Limits
   C) Fit
      i. Clearance
      ii. Interference
      iii. Transition
   D) Allowance
   E) Basic shaft system
   F) Basic hole system
   G) ANSI standard classifications
   H) Bilateral tolerance expression
   I) Unilateral tolerance expression
   J) Limit dimensioning

3. Know how to use the above terms to determine tolerances of parts

4. Know how to label and represent threaded holes

5. Know how to label and represent machining symbols
6. Know how to label and represent welding symbols

7. Know the concepts of design and working drawings
   
   A) Layout drawings  
   B) Detail drawings  
   C) Assembly and subassembly drawings  
   D) Titleblocks and Notations  
   E) Drawing numbering practices  
   F) Blueprint reading techniques

Most of these terms and practices can be found in any standard drafting book.

Know what the standard thread specifications, (Unified) are.