

Course Objectives/Course Outline
Spokane Community College

Course Title: Blueprint 6

Prefix and Course Number: MACH 230

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Read and understand complex engineering drawings
- Understand how tolerances affect multiple parts in assemblies
- Apply GD & T theory to complex engineering drawings

Course Outline:

I. GEOMETRIC DIMENSIONING AND TOLERANCING

- A Effect on process planning
- B Effect on inspection
- C Inspection techniques

II. COMPLEX ASSEMBLIES

- A. Relational tolerancing
- B. Mating fits
- C. Mechanical gages
- D. Non-planer surfaces

III. SOLID MODELS

- A. Using solids with prints for part data
- B. Using solids for print clarification