

**Course Objectives/Course Outline**  
**Spokane Community College**

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**Course Title:** Blueprint IV

**Prefix and Course Number:** MACH 210

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**Course Learning Outcomes:**

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

- Identify basic Geometric Dimensioning and Tolerances symbols
- Identify composition of materials using the AISI and SAE numbering systems
- Identify fasteners used in mechanical assemblies
- Interpret Engineering drawings and sketches

**Course Outline:**

I. DIMENSIONS AND TOLERANCES.

- A. Methods of Dimensioning and Tolerancing.
- B. Systems of Dimensioning and Tolerancing.
- C. Angular Dimensions and Tolerances.
- D. Dimensioning Holes.
- E. Dimensioning Arcs and Radii.
- F. Dimensioning Circular Hole Patterns.
- G. Positional Dimensions.
- H. Geometric Tolerances-Datums.
- I. Geometric Tolerances-Location and Form.

II. NOTES AND SYMBOLS.

- A. Machining Symbols.
- B. Surface Texture Symbols.
- C. Change Notes