

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

---

---

**Course Title:** Blueprint II

**Prefix and Course Number:** MACH 150

---

**Course Learning Outcomes:**

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

- Use sketching Techniques to draw a print
- Identify thread specifications
- Identify 1<sup>st</sup> angle and 3<sup>rd</sup> angle projection
- Calculate dimensions from prints

**Course Outline:**

- I. The SI Metric System
  - A. Dimensioning, Diametral Dimensions, and the ISO Symbols
  - B. First Angle Projection and Dimensioning
  - C. Dual System of Screw Threads Dimensioning and Tolerances
- II. Sections
  - A. Cutting Planes
  - B. Full Sections
  - C. Section Lining
  - D. Half Sections
  - E. Partial Sections
  - F. Assembly Drawings
- III. Numerical Control Drawing Fundamentals
  - A. Datums
  - B. Ordinate Dimensioning
  - C. Tabular Dimensioning
- IV. Surface Texture
  - D. Terminology
  - E. Symbols
  - F. Lay Symbols
  - G. Measuring Surface Texture