

Course Objectives/Course Outline
Spokane Community College

Course Title: Blueprint Reading

Prefix and Course Number: FLPT 113

Course Learning Outcomes:

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

- ready typical orthographic and isometric drawings
- identify all commonly used fasteners on industrial machinery
- identify the types and functions of steel, steel shapes, aluminum, and brass and their relationship to machine construction

Course Outline

- I. Machine Materials
 - A. Structural Steel
 - B. Sheet Steel
 - C. Tool Steel
 - D. Aluminum
 - E. Aluminum Alloy
 - F. Brass Bushings
 - G. Fasteners
 - H. Metal Alloys
- II. Measurement Tools
 - A. Steel Rules
 - B. Calipers
 - C. Micrometers
 - D. Vernier Scales
- III. Dimension and Tolerances
- IV. Orthographic Projection Drawings
 - A. Front
 - B. Top
 - C. Side
- V. Practical Interpretations
 - A. Auxiliary Views
 - B. Sectional Views
 - C. Title Block
 - D. Bill of Material
 - E. Drawing Notes
 - F. Welding Symbols
 - G. Thread Specifications
 - H. Tolerance of Position and Form