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:

- read 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