Course Objectives/Course Outline
Spokane Community College

Course Title: Introduction to Architectural Drafting
Prefix and Course Number: ARCHT 112

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

- identify the types of drawings and annotation conventions used in a set of residential construction drawings and in basic mechanical drafting.
- demonstrate the correct use of manual drafting equipment.
- demonstrate the ability to letter and to draft lines in a manner acceptable to architectural standards.
- create a three-dimensional computer model of footings, foundation, and framing (floor, wall, roof) of a residence and be able to generate plans, sections and exterior elevations.
- demonstrate a thorough understanding of orthographic projection as well as other concepts and terminology common in residential drawings.

Course Outline:

I. Basic Elements of Blueprint Reading
  A. Lines
    1. Object
    2. Hidden
    3. Center
    4. Extension
    5. Dimension
  B. Views
    1. Orthographic Projection
    2. Plans
    3. Elevations
    4. Sections
    5. Isometric
    6. Perspective
  C. Dimensions
    1. Size and Location
    2. Hierarchy of Dimension Strings
    3. Cylinders, Circles and Arcs
    4. Holes and Angles
    5. Doors and Windows

II. Building Design Industry
  A. Architectural Drafting Equipment
  B. Drafting Media and Reproduction Methods
  C. Sketching Applications

III. Design Studies
- A. 2D and 3D Design and Spatial Studies
- B. Abstract Studies
    1. Form
    2. Color
    3. Texture

IV. Manual Drafting Techniques
- A. Line Quality
- B. Line Weight Hierarchy
- C. Shade and Shadow
- D. Lettering

V. 3D Computer Drafting Techniques
- A. Object creation and manipulation
- B. Parallel Projection vs. Perspective
- C. Building Construction
    1. Footings
    2. Foundation
    3. Floor Framing
    4. Wall Framing
    5. Roof Framing