

Print Date: 6/20/16
Course Objectives/Course Outline
Spokane Community College

Course Title: Building Systems Mechanical CAD Applications
Prefix and Course Number: CAD 243

Course Learning Outcomes:

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

- Generate sketches, notes, cover sheets
- Identify the drawings required for a set of basic mechanical plans for architectural, structural, and civil working drawings
- Describe basic drafting guidelines and concept of codes applied to basic mechanical building system plans
- Generate simple floor plans and details found in the architectural industry

Course Outline

- I. Working/Detail Drawings
 - A. Material Selection
 - B. Drawing Number Systems and Documentation
- II. Floor Plan Layout
 - A. Types of Mechanical Plans and Floor Plan Drawings
 - B. Information included in Mechanical Plans
- III. Engineering Office/Design Specifications
 - A. Personnel
 - B. Physical Structure
 - C. Technician Responsibilities
 - D. Customer/Government Specifications
- IV. Design and Drawing of Floor Plans, Details, Cross-Sections, and other elements and various details in industry-relevant design layout styles
 - A. Terminology
 - B. Symbols
 - C. Code and Drafting Requirements
 - D. Full floor plans and detail drawings