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