Course Title: Schematic CAD Applications
Prefix and Course Number: CAD 258

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

- Generate production type schematic drawings
- Describe the design factors and shop drawing requirements for schematic symbols and terminology in electricity, electronics, hydraulics, pneumatics, wiring, and logics
- Generate the required types of schematic drawings found in the various engineering design industries
  [Include schematic projects from: electrical/electronics, hydraulics/pneumatics, and building system electrical – see arch students drafting electrical systems]

Course Outline

I. Schematic Drawings
   A. Component Selection and Identification
   B. Catalog Information Selection
   C. Ordering Procedures
   D. Drawing Number Systems and Documentation

II. Engineering Office/Design Specifications
   A. Personnel
   B. Physical Structure
   C. Technician Responsibilities
   D. Customer/Government Specifications

III. Design and Drawing of schematics and block/logic diagrams in various industry-relevant design layout styles for electricity, electronics, hydraulics, pneumatics, wiring harnesses, and logic devices
   A. Terminology
   B. Symbols
   C. Component Characteristics
   D. Full schematic and block/logic drawings