Course Objectives/Course Outline
Spokane Community College

Course Title: Civil CAD Applications
Prefix and Course Number: CAD 269

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

- Generate production type civil engineering design working drawings
- Know the design factors and site drawing requirements for site plans, map layouts, and detail drawings
- Generate the required types of engineering drawings found in the civil engineering industry

Course Outline

I. Design/Shop Drawings
   A. Material Selection
   B. Catalog/Specification Information
   C. Single/Multiple Detail Formats
   D. Drawing Number Systems and Documentation

II. Map/Foundation/Detail Drawing Layout
   A. Types of Map/Foundation/Detail Drawings
   B. Information Utilized
   C. Numbering Conventions

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

IV. Design and Drawing of Site Plans, Map Layouts, and Details (in various industry-relevant layout styles)
   A. Terminology
   B. Symbols
   C. Material Characteristics
   D. Full Detail and Assembly Drawings