

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