

Course Information Form (CIF)

Course Code: CAD 132

Course Title: Introduction to MicroStation

Department: Applied Sciences and Technologies

Effective Date: Summer 2026

PCS Code: 1.2 - Occupational/Technical Instruction

CIP Code: 15.1302

Repeatability: 0

Credit Hours

Catalog Notation: 2-1-2

Credit Hour Distribution:

Lecture: 2

Lab: 1

Clinical: 0

Total: 2

General Course Information

Catalog Description

Introductory computer-aided drafting applications using MicroStation for civil engineering projects.

General Course Objectives

Enable students to utilize MicroStation to create and modify CADD elements.

Minimum Placement Levels

English

None

Reading

None

Math

None

Prerequisites

None

Methods of Evaluation

Students will have at least 8 drawing assignments.

Instructional Materials and Additional Supplies

None.

Course Content

General Learning Outcomes (GLOs)

- Technology: Students will demonstrate the ability to evaluate, select, and appropriately use current and emerging tools.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Basic MicroStation Operation and Tools	1. Use MicroStation's interface. 2. Work with tools. 3. Work with DGN settings.	4	2	0
CADD Data Organization and Levels	1. Work with DGN files, levels, and information display.	4	2	0
2D CADD Drafting and Annotation	1. Create elements, including placing text, notes, and dimensions.	4	2	0
Smartline and AccuDraw	1. Use Smartline and AccuDraw to make complex elements.	3	2	0
Cells	1. Use and create cells. 2. Edit cell libraries.	3	2	0
Printing and Publishing	1. Create prints and publish to PDF.	3	2	0
Models and References	1. Use models within CADD files. 2. Reference tools, settings, and strategies.	3	1	0
Annotation Scale	1. Use Annotation Scale to size text, dimensions, and cells.	3	1	0
Drawing Composition	1. Create simple bordered CADD sheets using references.	3	1	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
30	15	0