

Course Information Form (CIF)

Course Code: CIT 257

Course Title: Construction Management Capstone

Department: Applied Sciences and Technologies

Effective Date: Summer 2026

PCS Code: 1.2 - Occupational/Technical Instruction

CIP Code: 52.2001

Repeatability: 0

Credit Hours

Catalog Notation: 2-2-3

Credit Hour Distribution:

Lecture: 2

Lab: 2

Clinical: 0

Total: 3

General Course Information

Catalog Description

Working with clients to design and plan a small construction project. Creation of construction documents such as shop drawings, cost estimates, and work schedules. Presentation of ideas, findings, and final design to a group of industry professionals.

General Course Objectives

Students will synthesize previous and concurrent course material to complete a design of a specific construction-related project. Students will produce construction documents that would be used by industry professionals to complete the construction project. Students will enhance interpersonal communication between peers, contractors, and clients. Students will build a portfolio of example construction documents to display to potential employers.

Minimum Placement Levels

English

None

Reading

None

Math

None

Prerequisites

Credit or concurrent enrollment in CIT 215 and CIT 216

Methods of Evaluation

Students will have to prepare a minimum of 1 oral presentation and 1 project with various milestones.

Instructional Materials and Additional Supplies

None.

Course Content

General Learning Outcomes (GLOs)

- Communication: Students will demonstrate the ability to read, write, listen, and speak effectively.
- Creativity and Innovative Thinking: Students will design, present, and interpret materials, information, and ideas in innovative ways.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Client and Contractor Relations	1. Collaborate with clients for proposed construction project to determine their needs and desires, as well as periodically update them on the progress. 2. Interact with construction personnel in a professional manner.	2	2	0
Site Planning, Assessment, and Design	1. Analyze the proposed construction site to determine what changes are necessary for the building project. 2. Prepare plans and schematics to depict pre- and post-construction of the site in regard to terrain, utilities, and site access.	6	8	0
Building Design	1. Design building components such as structure, mechanical, electrical, plumbing, and finishes using standard practices. 2. Improve design by consulting construction personnel and tradesmen in the design requirements for the building. 3. In conjunction with building design, consult local and current codes for building construction to ensure the design adheres to policy.	6	6	0
Construction Plan Development and Schematic Design	1. Develop plans or schematics to show the proposed construction building in a way that can be understood and used by other construction personnel.	6	6	0
Cost Estimating, Project Scheduling, and Contracts	1. Prepare documents typical to construction processes for estimating time schedules, project schedules, and proposals or contracts.	5	5	0
Project Presentation	1. Present the building design to the client.	5	3	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
30	30	0