Course Information Form (CIF)

Course Code: CIT 236

Course Title: Infrastructure Systems

Department: Applied Sciences and Technologies
PCS Code: 1.2 - Occupational/Technical Instruction
CIP Code: 46.0201
Repeatability: 0

Effective Date: Summer 2026

Credit Hours

Catalog Notation: 2-3-3
Credit Hour Distribution:

Lecture: 2	Lab: 3	Clinical: 0	**Total: 3**

General Course Information

Catalog Description

Overview of planning, design, construction, and inspection processes in site development, including demolition, earthwork, utilities, paving, and civil structures. Plan and specification interpretation; site visits to local projects.

General Course Objectives

Students will demonstrate a basic understanding of design and construction methods used in infrastructure development. The lab portion consists of field trips to construction sites to observe methods and equipment used and to discuss field supervision and inspection issues.

Minimum Placement Levels

English	Reading	Math
Placement out of ENG 099	Placement out of CCS 099	Placement out of MAT 060

Prerequisites

Credit in CIT 130

Methods of Evaluation

The minimum number of evaluation methods include 2 objective exams.

Instructional Materials and Additional Supplies

None.

Course Content

General Learning Outcomes (GLOs)

- Reasoning and Inquiry: Students will demonstrate the ability to solve problems using deductive reasoning and logic, quantitative reasoning, or the scientific method.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Site Plans	1. Interpret site plans and extract pertinent data for use in project quantity estimates and evaluations of contract compliance.	6	7	0
Site Design Process	1. Explain basic design factors and processes pertaining to site design.	8	5	0
Construction Terminology	1. Recognize and interpret commonly used technical and contractual language typical to the commercial construction field.	7	3	0
Construction Site Visits	1. Recognize and explain construction materials, methods, and equipment used in major phases of commercial site work and facility construction. 2. Discuss project organization as well as interaction of contractors, owners, suppliers, inspectors, and project managers. 3. Discuss job site inspection processes and requirements.	9	30	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
30	45	0