

CM 120: PLANS READING

Citrus College Course Outline of Record

Heading	Value
Effective Term:	Fall 2021
Credits:	2
Total Contact Hours:	36
Lecture Hours :	36
Lab Hours:	0
Hours Arranged:	0
Outside of Class Hours:	72
Strongly Recommended:	ENGL 101.
Transferable to CSU:	Yes
Transferable to UC:	No
Grading Method:	Standard Letter

Catalog Course Description

This course is designed to provide students with the foundational knowledge and practice at reading construction plans. Both residential and commercial construction drawings will be covered. The set of plans, such as the foundation plan, floor plan, elevations, sections and details that must be assembled into an organized set of drawings to show as much how plans are studied and analyzed. 36 lecture hours.

Course Objectives

- Given the basic contract anatomy, identify the key elements of contracts.
- Using actual construction specifications, interpret specifications pertaining to different types of construction elements.
- Understand and apply the basic order of precedence in contraction documents to resolve subject conflicts.
- Demonstrate ability to interpret and extract information from the various project documents, as directed in lab exercises.
- Explain the how the baseline contract documents can be changed to meet specific project needs and/or requirements.
- Analyze and resolve conflicts between contract documents governing the same requirement, given a specified construction requirement.
- Identify and explain the fundamental roles and scopes of authority of the owner, contractor, construction manager and architect/engineer and its grounding on what is prescribed in the construction contract documents.

Major Course Content

1. Basic Anatomy of Construction Contracts
2. Technical Specifications pertaining to residential, commercial and Heavy Civil Construction.
3. Reading and Interpretation of the Construction Project Contract Documents
4. Basic Change Management Process
5. Referenced Construction Industry Standard Documents
6. Process Documents and Tools

7. Fundamental Order of Precedence of Construction Contract Documents
8. Conflict Identification and Resolution
9. Blueprint reading and Navigation with understanding of Construction Drawings and Pertinent Reference Documents

Suggested Reading Other Than Required Textbook

Conduct reading of instructor-assigned construction documents based on instructor handouts and library research.

Examples of Required Writing Assignments

Given basic sample contractor materials submittals, prepare a basic review of the submittals to verify conformance with assigned contract specifications.

Examples of Outside Assignments

Write a report that describes the evolution of Computer Aided Drafting over the 20 years, addressing current practices & trends, comparisons of tools & techniques.

Instruction Type(s)

Lecture, Online Education Lecture