

# CM 275: CONSTRUCTION ESTIMATING

## Citrus College Course Outline of Record

Heading	Value
Effective Term:	Fall 2021
Credits:	3
Total Contact Hours:	54
Lecture Hours :	54
Lab Hours:	0
Hours Arranged:	0
Outside of Class Hours:	108
Prerequisite:	CM 270.
Transferable to CSU:	Yes
Transferable to UC:	No
Grading Method:	Standard Letter

## Catalog Course Description

Concept and procedures for analyzing materials and methods involved in producing reliable complete project estimates as well as the bidding process. 54 lecture hours.

## Course Objectives

- Create written reports and oral presentations for construction projects (ACCE-SLO# 1)\n
- Create quantity takeoff for construction projects (ACCE-SLO # 2)\n
- Conduct a cost comparative analysis of alternatives for the various estimates (ACCE-SLO # 2)
- Analyze subcontractor quotes and select the appropriate subcontract bid (ACCE-SLO # 2)
- Work effectively in a bidding team to develop and present a bid proposal (ACCE-SLO # 2)
- Determine a reliable cost for the individual construction tasks and overall project (ACCE-SLO # 2 and 6)
- Analyze different ethical issues in construction projects (ACCE-SLO # 8)

## Major Course Content

1. Basic Anatomy/Terminology of Estimating
2. Estimating Practices
3. Estimating Methods
4. Plans, Specifications and Drawings
5. Construction Contract Requirements
6. General and Supplemental Conditions
7. Construction Specifications Institute (CSI) Master and Uniformat II methods
8. Bidding Practice, Processes and Methods
9. Estimate / Bid Analysis
10. Conflict Identification and Resolution
11. Ethical Issues Pertinent to the Estimating Profession

## 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 an estimating narrative to support your estimates and address potential various estimating risk.

## Examples of Outside Assignments

Conduct research and prepare written report related to current estimating industry trends and tools, as well as potential ethical challenges.

## Instruction Type(s)

Lecture, Online Education Lecture