

CATALOG INFORMATION

Dept and Nbr: CONS 73 Title: ESTIMATING W/COMPUTER
Full Title: Estimating with Computers
Last Reviewed: 1/28/2019

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.50	Lecture Scheduled	2.00	8	Lecture Scheduled	16.00
Minimum	1.50	Lab Scheduled	3.00	8	Lab Scheduled	24.00
		Contact DHR	0		Contact DHR	0
		Contact Total	5.00		Contact Total	40.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 32.00

Total Student Learning Hours: 72.00

Title 5 Category: AA Degree Applicable
Grading: Grade Only
Repeatability: 33 - 3 Enrollments Total
Also Listed As:
Formerly:

Catalog Description:
Application of estimating methods and procedures to document an estimate for a residential or commercial construction project using the selected computer program. Students will learn how to use the computer program; techniques for saving time and money; tips for quantity takeoff; pricing of materials and labor; and apply this information to the preparation of estimates using the computer program.

Prerequisites/Corequisites:
Course Completion or Current Enrollment in CONS 72

Recommended Preparation:

Limits on Enrollment:

Schedule of Classes Information:
Description: Application of estimating methods and procedures to document an estimate for a residential or commercial construction project using the selected computer program. (Grade Only)
Prerequisites/Corequisites: Course Completion or Current Enrollment in CONS 72

Recommended:
Limits on Enrollment:
Transfer Credit: CSU;
Repeatability: 3 Enrollments Total

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area	Effective:	Inactive:
CSU GE:	Transfer Area	Effective:	Inactive:
IGETC:	Transfer Area	Effective:	Inactive:
CSU Transfer:	Transferable	Effective: Fall 1999	Inactive:
UC Transfer:		Effective:	Inactive:

CID:

Certificate/Major Applicable:
Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:

Upon completion of this course the student will be able to document an estimate for a residential or commercial construction project using the selected computer program.

Topics and Scope:

Software organization and capabilities:
how the program works
how it relates to manual estimates
procedures to follow
formats for documenting estimates

Sample Problem:

- Setting up an estimate for the computer
 - Review of Construction Documents
- Understanding the basic commands
 - Estimate Cover Page
 - Produce Estimate
 - Setting up Subtotals
 - Entering Takeoff Data
 - Printing Report

Other Commands

- Spreadsheet to takeoff window
- Goto feature
- Entering Lump Sums
- Changing a price on a spreadsheet
- Showing detail
- Printing a report

Student Project:

- Review of construction documents
- Setting up the estimate
- Getting the takeoff data
- Entering the takeoff data
- Accuracy and checking your work
- Printing reports

Assignment:

Reading

Sample Problem and exercises

Student Project: Applying the computer program

Interpreting working drawings and specifications

Entering data for estimates

Minimizing errors

Documenting the estimate - Producing the Report

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.

Writing
0 - 0%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Quizzes, Exams, Student Project

Problem solving
30 - 50%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Performance exams, Student Project

Skill Demonstrations
30 - 50%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice, True/false, Matching items, Completion

Exams
10 - 20%

Other: Includes any assessment tools that do not logically fit into the above categories.

Attendance and Participation

Other Category
0 - 10%

Representative Textbooks and Materials:

Estimating for Residential and Commercial Construction by Bert Benedict and Gordon Anderson, Delmar Publishers, 1994.

Estimating with Timberline Precision by Mark Reich and Judd Youell, Delmar Publishers, 1995.