CONS 73 Course Outline as of Fall 2004

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:

			Effective:	Inactive:
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.