RINKER SCHOOL OF CONSTRUCTION MANAGEMENT
UNIVERSITTY OF FLORIDA

COMPREHENSIVE ESTIMATING

COURSE NUMBER: *BCN 5618C*

TERM: *SPRING 2021*

NUMBER OF CREDIT HOURS: *3*

"Estimating is the most important of the practical aspects of construction management, and the subject deserves the closest attention of one aspiring to a career in the profession."

Virtual CLASS:
https://ufl.zoom.us/j/95889995756
Meeting ID: 958 8999 5756

CLASS MEETING TIMES: *Tu and TH 10:40 AM - 12:35 PM*

Instructor: *ABDOL CHINI (ARC 331D, CHINI@UFL.EDU, 352-294-1407)*

OFFICE HOURS: *M AND W 12:00 - 1:00 PM OR BY APPOINTMENT*
https://ufl.zoom.us/j/96221183309
Meeting ID: 962 2118 3309

COURSE WEBSITE: http://elearning.ufl.edu

REQUIRED MATERIALS:

1. Textbook: Peterson, Steven J. and Dagostino, Frank R., Estimating in Building Construction, 9th Edition, Pearson (required).

2. Software: a) RS Means Cost Data Online (https://www.rsmeansonline.com/); access to a cloud -based cost data (student version) will be provided; b) On-Screen Takeoff Software, each student will be provided a license to install the software on their computer. The license will be expired by the end of the semester.

3. Contract Documents: Drawings and Specifications for the "St. Augustine Airport Multi-purpose Building" project. The electronic version of the contract document is available on the course website.

COURSE DESCRIPTION:

Classification of work and quantity survey techniques. Analysis and determination of costs of construction operations including direct and overhead costs, cost analysis, and preparation of bid proposals.

PREREQUISITE KNOWLEDGE AND SKILLS:

Graduate Standing; able to read and measure plans; have knowledge of algebra, geometry, and trigonometry; be familiar with construction materials and methods.

PURPOSE OF COURSE:

To teach the student the background and skills necessary to accurately estimate the cost of construction projects, prepare a complete and concise report of the estimated costs, submit a formal bid package, and use IT to assist in the preparation of the estimate.

COURSE LEARNING OUTCOMES:

Upon completion of the course students will demonstrate their ability to:

❶ *Recognize different types of estimates and their uses*

❷ *Perform quantity takeoffs based on the drawings and specifications and generate detailed estimates*

❸ *Accurately estimate the cost of construction projects including direct and indirect costs*

❹ *Assemble a complete and concise report of the estimated costs of a project and submit a formal bid package*

❺ *Prepare and use construction cost data bases and use IT to assist in the preparation of the estimate*

ASSESSMENT METHODS AND TARGETS:

Assessment	*CLO 1*	*CLO 2*	*CLO 3*	*CLO 4*	*CLO 5*	*Taraet*
Quiz 1	*X*					*At least 80% receive a 70% or better*
Assignment 6					*X*	*At least 80% receive an 80% or better*
Final Exam		*X*				*At least 80% receive a 70% or better*
Project			*X*	*X*		*At least 80% receive an 80% or better*

TEACHING PHILOSOPHY:

My success as a teacher is determined by accommodating my students' needs. I continuously seek their feedback to know how they are doing, and to adapt instruction to meet their needs. I establish an environment that encourages students to offer comments, give opinions, ask questions, and share their knowledge. I also give them feedback to know how they are doing and what they can do to improve. In that respect, I grade and return all quizzes and exams promptly.

INSTRUCTIONAL METHODS:

The class meets two lecture hours and two lab hours per week. The lab hours will be used for review of different types of drawings, problem solving, case studies, guest speakers, and quizzes/exams.

COURSE POLICIES:

ATTENDANCE POLICY:

Attendance is required. Attendance grade will be computed in proportion to the number of presence. Requirements for class attendance and make-up quizzes, assignments, and other work in this course are consistent with university policies that can be found at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx

NOTE: ***The lectures will be video recorded. Please turn off your camera if you do not want your face/photograph be released.***

QUIZ/EXAM POLICY:

There will be two exams during the semester and a final comprehensive exam. The dates of the exams are provided in the course schedule. Three to four quizzes will be given throughout the semester.

ASSIGNMENT POLICY:

Assigned homework problems are due at the date specified on Canvas. Late homework will not be accepted and student will receive a zero on the assignment. All work turned in for this course is expected to be of professional quality in content and presentation. Homework problems may be graded by detailed checking or based on overall attempt. Instructor may choose not to grade some homework. Homework grade will be computed according to these policies.

COURSE TECHNOLOGY:

Two estimating software will be used in this course: a) RS Means Cost Data Online; and b) On-Screen Take-off Software. The lectures will be offered synchronously through Zoom video conferencing. Office hours and appointments will also be through Zoom video conferencing.

UF POLICIES:

UNIVERSITY POLICY ON ACCOMMODATING STUDENTS WITH DISABILITIES:
Students requesting accommodation for disabilities must first register with the Dean of Students Office (https://disability.ufl.edu/). The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. You must submit this documentation prior to submitting assignments or taking the quizzes or exams. Accommodations are not retroactive, therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations.

UNIVERSITY POLICY ON ACADEMIC MISCONDUCT:
Academic honesty and integrity are fundamental values of the University community. Students should be sure that they understand the UF Student Honor Code at https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/ . Although joint work on assignments may be acceptable in some cases, duplication of an assignment, both manually or by computer will be considered an act of academic dishonesty and dealt with accordingly. On all work submitted for credit by students at the university, the following pledge is either required or implied: ***"On my honor, I have neither given nor received unauthorized aid in doing this assignment."***

GETTING HELP:

For issues with technical difficulties for E-learning in Canvas, please contact the UF Help Desk at:

- *Learning-support@ufl.edu*
- *(352) 392-HELP - select option 2*
- *https://lss.at.ufl.edu/help.shtml*

GRADING POLICIES:

Assignment	Percentage
2 Tests @ 20% each	40%
Final Exam	25%
Term Project	15%
Homework	10%
Quizzes	6%
Attendance	4%
Total	100%

GRADING SCALE:

Grades will be computed according to the following scale:

A=93-100; A- =90-92.9; B+ =87-89.9; B=83-86.9; B- =80-82.9; C+ = 77-79.9; C=73-76.9; C- =70-72.9; D+ =67-69.9; D=63-66.9; D- =60-62.9; E<60.

Grade Values for Conversion												
Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E, I, NG, S-U, WF
Grade Points	4.0	3.67	3.33	3.00	2.67	2.33	2.00	1.67	1.33	1.00	.67	0.00

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.

COURSE SCHEDULE:

Week	***SUBJECT AND COVERAGE***	***ASSIGNMENT***
1-2	*Introduction, Contracts, Project Manual, the Estimate, Overhead and Contingencies*	*HW#1:C1 (Q5, 8, 9) C2 (Q3, 8, 12) C3 (Q9, 10, 12), C4 (Q2, 4, 7)*
3-4	*Labor and Equipment*	*HW#2: C6 (Q2, 4, 5) C7 (Q3, 4, 23, 26, 28), C8 (Q1, 4, 9)*
5	*Site work*	*HW#3*
6	*Concrete*	*HW#4*
February 25th	***Test #1***	***Chapters 1 thru 11 (except 5 and 9)***
8	*Masonry*	*HW#5*
9	*Computer-Assisted Estimating*	*HW#6*
10	*Metals*	*HW#7*
11	*Wood*	*HW#8*
April 1st	***Test #2***	***Chapters 12 thru 14***
13	*Thermal and Moisture Protection, Openings, Finishes*	
14	*Electrical; Plumbing; and HVAC*	
15	*Scope of work, Subcontractors Bid Analysis, Conceptual Estimating*	
April 29th	***Final Project Due (4:30 PM)***	
April 30th	***Final Exam (10:00 AM-12:00 PM)***	***Comprehensive***
First day	*Tuesday, January 11th*	
Last Day	*Tuesday, April 21st*	

Disclaimer: This syllabus represents my current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.