

University of Florida
M.E. RINKER, Sr. SCHOOL OF CONSTRUCTION MANAGEMENT
BCN 5618 COMPREHENSIVE ESTIMATING
SUMMER 2024 | Syllabus

HONOR CODE: Students are expected to comply with the spirit and intent of the University of Florida Honor Code, which states, “*We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.*”

Instructor: Idris Jeelani, PhD
Office: Rinker 317
Email: Mail tool in e-Learning in Canvas (preferred method)
Website: UF e-Learning in Canvas
Office Hours: **TBD** or by appointment
TA: Ahmed Bin Kabeer (a.rabbi@ufl.edu)
TA office hours: **TBD**

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.

INSTRUCTIONAL METHODS: Flipped Classroom approach. Students will be required to watch lecture videos before the class. The class will involve in-class estimating exercises and discussions. There will be a few in-class lectures as well.

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.

COURSE LEARNING OUTCOMES (CLOs):

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

1. Recognize different types of estimates and their uses
2. Perform quantity takeoffs based on the drawings and specifications and generate detailed estimates.
3. Accurately estimate the cost of construction projects including direct and indirect costs
4. Assemble a complete and concise report of the estimated costs of a project and submit a formal bid package.
5. Prepare and use construction cost databases and use IT to assist in the preparation of the estimate.

Table 1: Assessment Strategy

<i>Assessment</i>	<i>CLO 1</i>	<i>CLO 2</i>	<i>CLO 3</i>	<i>CLO 4</i>	<i>CLO 5</i>	<i>Target</i>
<i>Exam 1</i>	<i>X</i>					<i>At least 80% receive a 75% or better</i>
<i>Exam 2</i>		<i>X</i>	<i>X</i>			<i>At least 80% receive a 75% or better</i>
<i>Exam 3</i>				<i>X</i>		<i>At least 80% receive a 75% or better</i>
<i>Assignment</i>					<i>X</i>	<i>At least 80% receive an 80% or better</i>
<i>Project</i>		<i>X</i>	<i>X</i>	<i>X</i>		<i>At least 80% receive an 80% or better</i>

REQUIRED TEXTBOOKS

1. Textbook: Peterson, Steven J. and Dagostino, Frank R., Estimating in Building Construction, 9th Edition, Pearson (required).
2. 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.

HOMEWORK POLICY: The students are required to watch the video lectures and engage with the content (add comments, ask questions, discuss the topics) using Perusal. This will be moderated and graded. The lecture video homework is due before the class. In addition, students are required to complete estimating exercises in class with assistance from the TAs and instructor. The in-class exercises are due at the end of each class. Assignments will be accepted up to the established time. Any Assignment turned in after the deadline will be graded at 50% of the original credit. Any assignment turned in more than 48 hours late will not be accepted, and the student will receive a 0 (zero) on the assignment. All work turned in for this course is expected to be of professional quality in content and presentation.

ATTENDANCE POLICY: Attendance is required. 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>

QUIZ/EXAM POLICY: There will be three exams during the semester. The dates of the exams are provided in the course schedule. Three to four pop- quizzes will be given throughout the semester.

COURSE GRADING:

Lecture Video assignments: (8)	20%
Assignments & In-class exercises: 10 assignments	20%
Final Project	25%
Exams (3 Exams)	30%
Pop-quizzes & class participation	05%
Total	100%

Grade Scale: Grades will be given according to the following scale.

Letter Grade	Numeric Grade
A	≥ 93
A-	≥ 90 AND < 93
B+	≥ 87 AND < 90
B	≥ 83 AND < 87
B-	≥ 80 AND < 83
C+	≥ 77 AND < 80
C	≥ 73 AND < 77
C-	≥ 70 AND < 73
D+	≥ 67 AND < 70
D	≥ 63 AND < 67
D-	≥ 60 AND < 63
F	<60

COURSE SCHEDULE:

(Flip= watch online lecture video and in-person problem solving in class)

Class / Week	Date	Topic	Mode of Teaching	Assessments
Class 1 – Week 1	May 13	Module 1	In-person	Home Assignment 1 <i>Due May 15</i>
Class 2 – Week 1	May 15	Module 2	In-person	Home Assignment 2 <i>Due May 20</i>
Class 3 – Week 2	May 20	Module 3	Flip	In-class assignment – 3 <i>Due after class</i>
Quiz 1 from Module 1, 2, and 3 May 22 (Take home online)				
Class 4 – Week 2	May 22	Module 4	Flip	In-class assignment – 4 <i>Due after class</i>
Class 5 – Week 3	May 29	Module 5	Flip	In-class assignment – 5 <i>Due after class</i>
Class 6 – Week 4	June 3	Module 6	Flip	In-class assignment – 6 <i>Due after class</i>
Quiz 2 from Module 4, 5 and 6 Jun 6th (Take home online)				
Class 7 – Week 4	June 5	Module 7	Flip	In-class assignment – 7 <i>Due after class</i>
Class 8 – Week 5	June 10	Module 8	Flip	In-class assignment – 8 <i>Due after class</i>
Class 9 – Week 5	June 12	Module 9	In-person	In-class assignment – 9 <i>Due after class</i>
Class 10 – Week 6	June 17	Module 10 / Project discussion	In-person	No Assignment
Quiz 3 from Module 7 -10, Jun 22nd / 23rd (Take home online)				

UNIVERSITY POLICY ON ACCOMMODATING STUDENTS WITH DISABILITIES: Students requesting accommodation for disabilities must first register with the Dean of Students Office (<http://www.dso.ufl.edu/drc/>). 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 (discussion, term paper, extra credit) 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 <http://www.dso.ufl.edu/students.php>. The Honor Code will be applied in the class. We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity. 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." It is Rinker School policy that any incident of cheating, copying, or other attempts to deceive will be penalized by course failure.

NETIQUETTE, COMMUNICATION COURTESY POLICY: All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats. Detailed guide is available at <http://teach.ufl.edu/wp-content/uploads/2012/08/NetiquetteGuideforOnlineCourses.pdf>

GETTING HELP WITH E-LEARNING WEBSITE: In the case you have technical difficulties with 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>. If your technical difficulties will cause you to miss a due date/time, you MUST report the problem to the UF Help Desk **before** the due date/time.

CELLPHONES. Cellphone use is not allowed in classrooms. Use of cellphones during class will discount attendance. Use of cellphones during an exam will result in failing the exam.

LAPTOPS & TABLETS. These devices should only be used to take notes related to lectures. Use of these devices for social media or any other unrelated purposes during class hours will result in a penalty of 10 points for every incident. **COMMUNICATION**

- Use the e-Learning in Canvas environment to send an email to the instructor and teaching assistant. Do not e-mail the course instructor and teaching assistant outside of the e-Learning in Canvas system because emails received outside of e-Learning will not receive a response. Please allow 36 hours for a response to your email. The instructor and teaching assistant reserve the right not to respond to course inquiries on the weekend.
- You are responsible for addressing grades/omissions within one week of the grade being posted on e-Learning in Canvas. After one week, the grade/input stands for the class regardless of cause or circumstance.

Note from the instructor: *The 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.*