

M.E. Rinker, Sr.
School of Building Construction
University of Florida
Semester Course Outline

BCN 4612C – Estimating II

Fall 2025

3 Credits

Instructor: Dr. Aladdin Alwisy, RNK 311, Rinker Hall
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Prerequisites: BCN 3611, Senior Standing

Description: (1) Analysis and determination of the cost of construction operations including labor, materials, subcontractor costs, and the associated indirect and overhead costs and profit. (2) Conceptual estimating is introduced and used as a tool to review a project's feasibility, initiate value engineering analysis and establish budgets. (3) Extensive analysis of material supplier, subcontractor, and labor quotes for each technical section. (4) Bidding various technical sections as a subcontractor and bid day simulation using estimating software. Post bid issues including change orders, schedule of values, contract modifications, and professional ethics are discussed.

Method: Four (4) hour combination lecture/laboratory contact hours per week.

Objectives:

- The students will be able to identify the duties and responsibilities of the professional estimator (ACCE SLO 6 *Ethics* and 13 *Risk*)
- The students will have the skills and confidence needed to understand and accurately estimate and bid on commercial and residential construction projects (ACCE SLO 4 *Estimating*, 10 *IT*).
- To help the student recognize that having the ability to accurately estimate the cost of any construction activity is a necessary and fundamental requirement in any construction career path (ACCE SLO 4 *Estimating*, and 10 *IT*).

Required Texts: RS Means Building Construction Cost Data, latest edition, R.S. Means Co., Inc., Kingston, MA (**may be available online*)

Recommended Text: Fundamentals of Construction Estimating, Pratt, Delmar Publishing, latest edition.
Estimating in Building Construction, Steven J. Peterson, Frank R. Dagostino, Pearson Publishing, latest edition.
Construction Estimates from Take-off to Bid, Norman Foster, McGraw-Hill Book Co., latest edition.

Other Requirements: EXCEL spreadsheet, software applications as necessary

Classes Mondays and Wednesdays: **RNK 110**
All Sessions: Period 4 (10:40 AM - 11:30 AM)

Thursdays: **RNK 210**
Period 4 - 5 (10:40 AM - 12:35 PM)
Period 7 - 8 (1:55 PM - 3:50 PM)

Office Hours Wednesdays: **RNK 311**
(9:30 AM - 11:30 AM)

By Appointment:

Email aalwisy@ufl.edu. The subject line should read *BCN 4612 APPOINTMENT REQUEST-<your name>*.

Please provide a brief description of what you want to discuss. Also please suggest one or two alternate times for scheduling other student requests. I will send you an e-mail about the appointed time.

TA: Chao Xie, Email xie.chao@ufl.edu

Attendance: Attendance is mandatory. You have three unexcused absences. To have an absence excused, you need to bring proof of why it was unavoidable (doctors note, etc.)

In-Class Group Assignments: In-class assignments are group assignments that must be solved during the class (lab sessions) by everyone in the group. If a student is absent during an in-class assignment, they will receive *ZERO* on that in-class assignment. Students will have until *midnight of the following day* to submit their in-class assignments, however, students are not allowed to leave the lab session early without confirming that they submitted their work.

Exams: *NO MAKEUP EXAMS.*
There are three *CLOSED-BOOK* exams; No appendices will be provided. The exams' results must be discussed in person within 24 hours after the quiz/exam has been taken. After 24 hours the grade is final.

Final Project: The final project will cover a variety of topics taught throughout the year. It is a group project where a peer review will be implemented to assign 50% (i.e., 100 points) of the report.

Final Exam: There is no final exam.

Bonus points: Bonus points opportunities will be given throughout the semester in class.

Grade Breakdown: Final grades will be calculated as follows:

50				EXAM 1	150	300
	Module 1	Introduction to Estimating II	25	Module 1		
	Module 2	Conceptual Estimating	25	Module 2		
	Module 3	General Requirements	25	Module 3	150	
				EXAM 2		
	Module 4	Subcontractor Bid Analysis	25	Module 4		
	Module 5	Concrete Pricing	25	Module 5		
	Module 6	Sitework Pricing	25	Module 6		
				EXAM 3	150	
	Module 7	Masonry Pricing	25	Module 7		
	Module 8	Finishes Pricing	25	Module 8		
	Module 9	Bid Simulation		Module 9		
50		200		450	300	
					1000	

**Grade
Makeup:**

Final grades will be calculated as follows:

Attendance	50
In-Class Assignments	200
Exams	450
Final Project	300
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	1000

Grade Scale:

Divide the total points you earn by **the total possible points**. Grades will be given according to the following scale. **Decimal points will not be Rounded.** For instance, **89.99% is still considered as B+.**

Name	Range	
A	100%	to 94%
A-	< 94%	to 90%
B+	< 90%	to 87%
B	< 87%	to 84%
B-	< 84%	to 80%
C+	< 80%	to 77%
C	< 77%	to 74%
C-	< 74%	to 70%
D+	< 70%	to 67%
D	< 67%	to 64%
D-	< 64%	to 61%
E	< 61%	to 0%

**Student
Evaluations:**

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, or via <https://ufl.bluer.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

Accommodations:

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Honor Code:

All students in this course are subject to the requirements of the University of Florida's Honor Code <https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>. Cheating will not be tolerated. Although joint work on assignments may be acceptable in some cases, duplication of an assignment either manually or electronically will be dealt with as an act of academic dishonesty. "We, the

members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity.”

Counseling:

Contact information for the Counseling and Wellness Center:
<http://www.counseling.ufl.edu/cwc/Default.aspx> (Links to an external site.),
 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies

Reservations And Remedies:

The instructor reserves the right to modify the course schedule, grade make-up, grade scale, modules, and any other aspect of the course as deemed fit throughout the term without notice. The updated Syllabus will be uploaded on the course’s Canvas. For any questions, issues, or concerns about the course (assessment, policies, schedule, etc.), please contact the instructor to remedy them.

Weekly Course Schedule:

Week/ Date	Type	Topic/Description	Date/ Due_Date
Week 1 <i>Aug21 – Aug23</i>	Lecture	Course Introduction <ul style="list-style-type: none"> Estimating II Intro & Review Course Content 	
	In-Class	N/A	N/A
Week 2 Aug24 – Aug30	Lecture	Module 1: Introduction to Estimating II <ul style="list-style-type: none"> BCN 4612C - M 1 - 1 – Intro RS Means 	
	In-Class	N/A	N/A
Week 3 <i>Sep02 – Sep06</i>	Lecture	<ul style="list-style-type: none"> BCN 4612C - M 1 - 2 - Specs and Plan Reading Masterformat_2018_web 	
	In-Class	Module 1 – In-Class Assignment	Sep06
Week 4 Sep07 – Sep13	Lecture	Module 2: Conceptual Estimating <ul style="list-style-type: none"> BCN 4612C - M 2 - 1 - First Budget Estimate Procedures 	
	In-Class	N/A	N/A
Week 5 Sep14 – Sep 20	Lecture	<ul style="list-style-type: none"> BCN 4612C - M 2 - 2 - Conceptual Estimates and Project Narratives BCN 4612C - M 2 - 3 - Conceptual Estimates 	
	In-Class	Module 2 – In-Class Assignment	Sep20
Week 6	Lecture	Module 3: General Requirements	

Week/ Date	Type	Topic/Description	Date/ Due_Date
Sep21 – Sep28		<ul style="list-style-type: none"> BCN 4612C- M 3 - 1 - General Requirements BCN 4612C- M 3 - 2 - GR/GC In-Class Example Haskell (General Conditions) 	
	In-Class	Module 3 – In-Class Assignment	Sep27
Week 7 Sep28 – Oct04	Lecture	<ul style="list-style-type: none"> Modules 1, 2, and 3 Review 	
	EXAM	Exam 1 – Modules 1, 2, and 3	Oct01
	Lecture	<ul style="list-style-type: none"> Exam 1- Review 	
	In-Class	N/A	N/A
Week 8 Oct05 – Oct11	Lecture	Module 4: Subcontractor Bid Analysis <ul style="list-style-type: none"> BCN 4612C- M 4 - 1 - Prequalification Process BCN 4612C- M 4 - 2 - Sub Bids Coastal Construction: Change Management Processes (Changes to Contract Documents & Best Practices.) 	
	In-Class	Module 4 – In-Class Assignment	Oct11
Week 9 Oct12 – Oct18	Lecture	Module 5: Concrete Pricing <ul style="list-style-type: none"> BCN4612_PCC_In-Class Examples BCN4612_PCC_In-Class Example #2 Charles Perry Partners, Inc. 	
	In-Class	Module 5 – In-Class Assignment	Oct18
Week 10 Oct19 – Oct25	Lecture	Module 6: Sitework Pricing <ul style="list-style-type: none"> BCN 4612C - M 6 - 1 - Sitework Pricing BCN 4612C - M 6 - 2 - Sitework Pricing 	
	In-Class	Module 6 – In-Class Assignment	Oct25
Week 11 Oct26 – Nov01	Lecture	<ul style="list-style-type: none"> Modules 4, 5, and 6 Review 	
	EXAM	Exam 2 – Modules 4, 5, and 6	Oct29
	Lecture	<ul style="list-style-type: none"> Exam 2 Review 	
	In-Class	N/A	N/A
Week 12 Nov02 – Nov08	Lecture	Module 7: Masonry Pricing <ul style="list-style-type: none"> BCN 4612C- M 7 - 1 - Masonry Estimate 	

Week/ Date	Type	Topic/Description	Date/ Due_Date
		<ul style="list-style-type: none"> BCN 4612C- M 7 - 2 - Masonry Estimate 	
	In-Class	Module 7 – In-Class Assignment	Nov08
Week 13 <u>Nov09 – Nov15</u>	Lecture	Module 8: Finishes Pricing <ul style="list-style-type: none"> BCN 4612C- M 8 - 1 - Finishes Estimate BCN 4612C- M 8 - 2 - Finishes Pricing 	
	In-Class	Module 8 – In-Class Assignment	Nov15
Week 14 Nov16 – Nov24	Lecture	Module 9: Bid Simulation <ul style="list-style-type: none"> BCN 4612C- M 10 - 1 - The Bidding Process <ul style="list-style-type: none"> BCN 4612C- M 11 - 2 - Closing the Bid Hawkins Construction, Inc. (Bid Simulation) 	
	In-Class	N/A	N/A
Week 15 Nov23– Nov29		HOLIDAY	
	In-Class	N/A	N/A
Week 16 <u>Dec01 – Dec03</u>	Lecture	<ul style="list-style-type: none"> Modules 7, 8, and 9 Review 	
	EXAM	Exam 3 – Module 7, 8, and 9	Dec04
Finals Week	Report	Final Project Submission	Dec10