

## BCN 3611C Construction Estimating I – Spring 2026

Tuesdays Periods (11:45 am - 1:40 pm), 238 Rinker Hall

Thursdays Periods (11:45 am – 1:40 pm or 1:55 pm – 3:50 pm), 238 Rinker Hall

**Instructor:** Dr. Eileen Pesantes

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Tuesdays, Thursdays 10:40 am - 11:30 am and by appointment

**Teaching Assistant:** Qipeng LIU

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Office hours: Tuesdays, Thursdays 1:55-2:45 and by appointment

**Course Description:**

Classification of work, quantity survey techniques, and basic estimating principles applied to simple construction projects. Instructional materials for this course consist of only those materials specifically reviewed, selected, and assigned by the instructor(s). The instructor(s) is only responsible for these instructional materials.

**Course Learning Outcomes (CLOs):**

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

1. Understand the significance of estimating to the construction industry and identify the duties, responsibilities, and risks associated with construction estimating.
2. Recognize different types of estimates and their uses.
3. Read and interpret the drawings and specifications.
4. Perform quantity takeoffs based on the drawings and specifications and generate detailed estimates.
5. Use computer to assist in quantity takeoffs.
6. Be aware of the ethical questions that arise in construction estimating.

ACCE = American Council for Construction Education

SLO = Student Learning Outcome

ACCE SLO 4 (I): Create construction project cost estimates.

ACCE SLO 6 (R): Analyze professional decisions based on ethical principles.

ACCE SLO 8 (I): Apply electronic-based technology for construction layout and control.

**Assessment Methods and Targets**

ACCE				SLO 4	SLO 8	SLO 6	
Assessment	CLO 1	CLO 2	CLO 3	CLO 4	CLO 5	CLO 6	Targets
Test 1	X	X		X			At least 80% receive a C- or better
Test 2			X	X			At least 80% receive a C- or better
Assignments						X	At least 80% receive a B- or better
OST/BIM Lab					X		At least 80% receive a B- or better
Final Project			X	X	X		At least 80% receive a B- or better

Additional information on the BCN undergraduate learning outcomes is available at:

<https://catalog.ufl.edu/ugrad/current/construction/ALC/building-construction.aspx>.

**Recommended Texts:**

Peterson, S. J., and Dagostino, F. R. (2018). *Estimating in Building Construction*, 9th Ed. (or latest edition), Prentice Hall.

### **Course Policy:**

1. **No** late homework, late quiz, or make-up exams (excuses for such are defined by the university rules and regulations).
2. **Arriving late** to the class or **leaving before** the end of the class will **not be accepted**. If you are attending the class, you need to be there from the beginning until the end of the class.
3. Class **attendance** is required. If absence is necessary, the instructor is to be notified before the fact.
4. Each and every student is entitled to as much consultation time as may be required. To preserve the privilege of obtaining individual assistance, each student is expected to attend class regularly.
5. In-class participation and questions are encouraged. They may positively influence grading decisions in borderline cases.
6. All cell phones must be **off**, not vibrate, but off while in class. All cell phones will be inside backpacks or otherwise stored away from the student during all examinations. Laptops can only be used when instructed.
7. All students are required to have a University network account to access the computers and e-Learning.

Requirements for attendance, make-up exams, assignments, and other work in this course are consistent with UF policies found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

### **Method of Assessment**

Students are responsible for the content of all reading materials, whether or not the material is covered in class. See the detailed course schedule for deliverable due dates. Students are responsible for addressing grades within one week of the grade being posted on the course's e-Learning website. After one week, the grade stands for the class regardless of cause or circumstance.

Attendance and Participation	5%
Quizzes	15%
Assignments	15%
Final Project	25%
Test #1	20%
Test #2	20%
Total	100%

### **Grading Performance:**

Final grades will be assigned according to the following scale. Divide the total points you earn by the total possible points to obtain your percent. Decimal points will not be rounded

Percent	Letter Grade	Grade Points			
93.0 - 100	A	4.00	73.0 - 76.99	C	2.00
90.0 - 92.99	A-	3.67	70.0 - 72.99	C-	1.67
87.0 - 89.99	B+	3.33	67.0 - 69.99	D+	1.33
83.0 - 86.99	B	3.00	63.0 - 66.99	D	1.00
80.0 - 82.99	B-	2.67	60.0 - 62.99	D-	0.67
77.0 - 79.99	C+	2.33	0 - 59.99	E	0.00

More information on grades and grading policies at UF is available at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

### **Instructional Method:**

- This course will be conducted with a two-period session of lecture, followed by a two-hour period of lab sessions. You are expected to follow along during the lecture and take notes to apply the new concepts to your assignments during the lab period. The lab period will be a workshop style time where you are expected to work on the assignment and ask questions to help you master each topic.
- Students are expected to **stay in the class** until they satisfactorily complete and turn in their lab assignments. A student is allowed to complete an assignment at home only if he/she has remained for the full class period and needs additional time to complete the assignment.

### **Assignments and Final Project Submission:**

- **Late submissions will not be accepted, regardless of circumstances.** For late submission, the student will receive a zero on the assignment/final project. The instructor reserves the right to check the procedure of the submitted assignments with any student at any time.
- All work turned in for this course should have professional quality in content and presentation.
- All the assignments and the final project have to be **submitted exclusively in Canvas**.
- It is **your responsibility** to verify the successful submission of the assignments/final project in Canvas. Submission by **email** or **digital media** (such as USB drive) **will not be accepted**.
- In the case you have technical difficulties with Canvas, please contact the UF Help Desk at learning-support@ufl.edu, or (352) 392-4357 - select option 2, or go to Ground floor of the Hub. If your technical difficulties cause you to miss a due date, you **MUST** report the problem to UF Help Desk **before the due date/time**. Include the ticket number that you are given in an e-mail to the instructor to explain the late assignment due to problem with Canvas.

### **Class Demeanor:**

It is expected that everything submitted for a grade will be professional, with correct spelling and grammar. The expectations and caliber of the work expected in this course are elevated to the level of the business community and evaluated against that baseline. Work that may have been previously accepted during your academic career may no longer be acceptable here. When available, use software to produce your work. If your work product is considered unacceptable in the workplace, then it is unacceptable here. The goal is for all work to represent what you would submit to your immediate boss in a job scenario. If your boss won't accept it, then we won't either.

This course has been taught for many years, and as a result there may be a temptation to "rely on the work of others" for inspiration. Should the instructor determine that a student's work is substantially similar to that of another (either past or present), the student may be subject to a rejection of that assignment and will be cited with an honor court violation. Similarly, the use of materials, worksheets, or data from previous semesters is considered cheating. Your work is subject to electronic verification by TurnItIn® or other technologies.

### **Communication**

- Use the e-Learning in Canvas environment to send an email to the instructor and teaching assistant. 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.

### **Accessing University Academic Policies and Campus Resources**

To support consistent and accessible communication of university-wide student resources, please use this link to academic policies and campus resources: <https://go.ufl.edu/syllabuspolices>.

<b>BCN 3611C Topical Outline</b>			
<b>WEEK</b>	<b>TOPIC</b>	<b>PREPARATION</b>	<b>REMINDER</b>
<b>1 (1/12)</b>	Introduction to the Course, Requirements and QTO Prerequisite Review: Math, Geometry, Plan Reading (Module 1) (First Class)	Read Syllabus Math in Estimating Review	Syllabus Quiz Math Self-Assessment
	Pretest	Preview Module 2 Read Chapters 1-4	Finish Discussion Board Assignment 1
<b>2(1/19)</b>	Plan Reading lab (Module 1)	Preview Plan Reading Activity	Plan Reading Quiz
<b>3(1/26)</b>	Chapter 1-4 (Module 2)	Read Chapter 4 Module 2 Reading Quiz	Module 2 Exit Quiz
	Chapter 1-4 (Module 2)		Assignment 2
<b>4 (2/2)</b>	Excavation (Module 3)	Read Chapter 10 Module 3 Reading quiz	Start Assignment 3
	Excavation lab exercise	Preview lab exercise Week 1	Assignment 3 Module 3 Exit Quiz
<b>5 (2/9)</b>	Concrete (Module 4) Week 1	Read Chapter 11 Module 4 Reading Quiz	
	Concrete lab exercise	Preview lab exercise Week	
<b>6 (2/16)</b>	Concrete (Module 4) Week 2		Assignment 4
	Concrete lab exercise	Preview lab exercise Week	Module 4 Exit Quiz
<b>7 (2/23)</b>	Review Module 1-4, Test 1	Finish review questions	
	<b>Test #1 – Thursday, February 26 (Tentative)</b>		
<b>8 (3/2)</b>	Masonry (Module 5)	Read Chapter 12 Module 5 Reading Quiz	Assignment 5 Module 5 Exit Quiz
	Masonry lab (Module 5) OST lab 1 (Module 8)	Preview lab exercise Preview Module 8 OST Install and activate the software	Assignment 8
<b>9(3/9)</b>	Metal and Steel (Module 6)	Read Chapter 13 Module 6 Reading Quiz	Assignment 6 Module 6 Exit Quiz
	Metal and Steel lab (Module 6) Togal.AI lab (Module 8)	Preview lab exercise Preview Togal.AI	Togal Assignment

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<b>WEEK</b>	<b>TOPIC</b>	<b>PREPARATION</b>	<b>REMINDER</b>
<b>10 (3/16)</b>	<b>Spring Break: No class</b>		
<b>11 (3/23)</b>	Wood (Module 7)	Read Chapter 14 Module 7 Reading Quiz Preview Final Project Instruction	Final Project starts Assignment 7
	Lab exercise (Module 7)	Preview lab exercise	Module 7 Exit Quiz
<b>12 (3/30)</b>	OST and Togonal introduction	Read Chapter 11	
	OST lab session	Preview lab exercise Week 2	
<b>13 (4/6)</b>	Review Module 5-8	Finish review questions	
	<b>Test #2 – Thursday, April 2 (Tentative)</b>		
<b>14 (4/13)</b>	Guest Lecture (tentative)		
	Bluebeam lab (Module 8)	Install Bluebeam	
<b>15 (5/20)</b>	Final Project Workdays	Last class: 5/21	Final Project due on 12/3
<b><u>Disclaimer:</u></b> This Syllabus is provided for informational purposes regarding the anticipated course content and schedule. It is based on the most recent information available as of the date of its issuance. It is as accurate and complete as is possible at this time. The instructors reserve the right to make any changes deemed necessary and/or appropriate. An effort will be made to communicate any syllabus changes in a timely manner. Students are responsible for being aware of these changes.			