

**M.E. RINKER, SR.**  
**SCHOOL OF BUILDING CONSTRUCTION**  
**UNIVERSITY OF FLORIDA**

Course Outline

**BCN 4709C - Construction Project Management (3 credits)**

PREREQUISITE: S2 Standing

DESCRIPTION: Understanding the various forms of project delivery methods (Design-Bid-Build, Design-Build, and Construction Management) and the underlying principles for choosing the appropriate system. Recognizing the complexity of the preconstruction process including conceptual estimating and scheduling, life cycle costing, constructability reviews, value engineering, risk management and special contract requirements. Understanding management and administration of a construction project.

METHOD: Three lecture hours and one lab hour per week.

COURSE LEARNING OUTCOMES (STUDENT LEARNING OUTCOMES):

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

1. Understand project control processes by identifying the methods used to establish and maintain cost and schedule control (ACCE SLO 16).
2. Describe the underlying principles of choosing the appropriate project delivery method (ACCE SLO 12).
3. Discuss constructability review, value engineering, and life cycle costing (ACCE SLO 16).
4. Recognize the processes of construction risk management including bonding, OCIP, CCIP, Safety and control (ACCE SLO 13).
5. Identify the major elements of a Quality Control/Quality Assurance Program (ACCE SLO 15)
6. Employ a state of the art electronic based technology to document and manage the construction process (ACCE SLO 10)

REQUIRED MATERIALS:

1. Textbook: BCN 4709C/BCN5705-Construction Project Management Current
2. Software: PROLOG. Available at the BCN computer lab
3. Software: Onscreen Takeoff or equivalent / Prolog
4. Sketchup or equivalent
5. AIC Associate Constructor Study Guide Level 1 – Construction Fundamentals

COURSE STRUCTURE:

Course focus:

1. AIC Fundamentals Review
2. Individual Mid-term creative assignments
3. Team analysis of project specific material/case studies
4. Technology tools (Excel, Prolog, Sketchup)

GRADING SYSTEM:

**Individual Effort**

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Exam I (AIC Practice)	20%
Exam II (Midterms Assignments)	20%
Written Assignment (SLO 1)	2%
Project Delivery Assignment (SLO 12)	2%
Risk Assignment (SL013)	2%
QA/QC Assignment (SL015)	2%
Project Control Assignment (SLO16)	2%
Multi-Disciplinary Assignment (SLO9)	2%
Technology Assignment (SLO10)	2%
Value Engineering/Lifecycle Assignment (CLO3)	2%
Ethics Assignment/Paper (SLO6)	4%
In-class and homework assignments	30%
Final Exam (Based on Team Effort Projects)	10%

**Team Effort**

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Project Delivery Assignments (Sustainable/Technology/Field/Pre-con)	
- Analysis	10%
- Presentation	10%

**Total** **100%**

Grading 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	less than 60

ASSESSMENT METHODS

	SLO 1 DA	SLO 6 DA	SLO 16 DA	SLO 12 DA	SLO 16 DA	SLO 13 DA	SLO 15 DA	SLO 10 R	SLO 10
Assessment			CLO 1	CLO 2	CLO 3	CLO 4	CLO 5	CLO 6	
Written Assignment	X								
Ethics Assignment		X							
Project Control Assignment			X						
Project Delivery Assignment				X					
Value Engineering/Lifecycle Assignment					X				
Risk Assignment						X			
QA/QC Assignment							X		
Technology Assignment								X	
Team Projects									X

Assessment	Target
Assignments	At least 80% receive a C or better
Team Projects	At least 80% receive a B- or better

Extra Credit: Rinker Promotion Video – Must be professional. Script and storyboard approved. Approved by undergrad director will be posted to Rinker Website. Max points 15 / total team members 4.  
OR  
Emotional Intelligence or Strength Finder – 4 page/single spaced reflection Max 15 pts

Class website: E-learning/webct/Sakai : lss.at.ufl.edu

Quality: It is expected that everything submitted for a grade will be professional with correct spelling and grammar. With regard to homework/quizzes – 10 points is for going above what is asked, 8-9 points for meeting the minimum of what is expected, 5-7 points for quality work that may not be correct in scope. When available use software to produce your work. The goal is for all work to represent what you would fax/submit to your immediate boss in a job scenario. There is no credit for submitting late work. I will drop the lowest score for each type of assignment (i.e., quizzes, homework, codebook quizzes)

Communication: No work will be accepted via an e-mail submission unless structured submittal via e-learning as an upload. ***Please try to communicate with me during office hours or***

before/after class periods. You are important to me as a student - I am simply overwhelmed with electronic communication. Please feel free to keep me in the loop with regard to your situation but I am limited to respond. I will respond to e-mails/texts at my discretion. You are responsible for addressing grades/omissions within one week of the grade being posted on e-learning. After one week the grade/input stands for the class regardless of cause or circumstance.

Cell Phones: Cell phone use is not allowed in classrooms/Perry Yard. Use of a cell phone during class will discount attendance. Use of cell phones during an exam will result in failing the exam.

Late Work: Late Work will be accepted at 50% of potential points no later than the start of the next scheduled class. Any exams missed must have documentation regarding cause and must be taken prior to the start of the second scheduled class from the time of the missed exam.