

COURSE TITLE: BSCI 7046 Integrated Building Processes II
Fall 2014

CREDIT HOURS: 3 credits

MEETING TIME: 6:00 – 8:00 PM Central Wednesday Night (Coordinated with Professor Kramer)

MEETING PLACE: On-Line

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OFFICE HOURS: **As Required**

TEXTS: *Construction Jobsite Management, 3rd edition*, by Mincks and Johnston

RESOURCES: Set of Drawings and Specifications

COURSE DESCRIPTION:

The course is designed to develop an understanding of construction management processes from contract to close-out with the focus on using pre-planning as an efficient management tool.

COURSE OBJECTIVES:

The Goal of the course is to take the student from the award of the contract through the construction process. The student will develop an in depth understanding of the construction process and a skill set required by the construction environment which will allow all students to work productively on a construction project. Basic skills and knowledge base for the construction industry include, but are certainly not limited to:

- Understanding pre-construction planning
- Developing project management teams
- Creating subcontractor scopes of work
- Creating subcontract agreements
- Managing change orders and understanding their impact
- Creating site utilization plans
- Creating and managing schedules
- Projecting project cash flow and cash requirements
- Managing subcontractors
- Managing quality
- Managing labor
- Developing and managing safety plans
- Reacting to construction problems and mistakes
- Closing out a project

SCHEDULE AND ASSIGNMENTS:

Due Dates and Grading Schedule				Read
Date Due	Assign	Topic	Points	M&J
22-Aug	1	Finding a Project	50	
25-Aug	2	Learning the Project	100	1
1-Sep	3	Project Analysis and Plan for Construction	100	2,3
8-Sep	4	Project Management Organization	100	12
15-Sep	5	Subcontractor Management	100	4,5,7
22-Sep	6	Scope of Work	100	10
29-Sep	7	Change Orders	100	15
6-Oct	8	Cash Flow Projection	100	
13-Oct	9	Quality Management	100	11
20-Oct	10	Safety Plan	100	
27-Oct	11	Schedule	200	9
10-Nov	12	Site Utilization	200	6,13
17-Nov	13	Close-out	100	17
1-Dec	14	Executive Summary	200	
		Total Points	1650	

OVERVIEW OF THE LECTURES AND DELIVERABLES:

The focus of the class is project management and more specifically, the pre-planning and management of the project. The key to successful management over time is to create processes for management which are adaptable to a wide range of projects, and learn from mistakes. The management of a project is unique to each of the participants. The issues that are dealt with in the construction process are basically the same, regardless which entity holds the responsibility. **The assignments in this class will be structured with the student as the General Contractor or Construction Manager.**

Each student shall find their own project. The good news is that you will not be required to estimate the project, so the size and scope is not limited. Knowing that some of you have more experience than others, I would suggest that each of you *choose a project that will challenge you.* Most of you are involved in buildings, but if you have a civil or industrial project you are interested in you can use it. The project may be in the planning stage, in progress, or completed. *A project that is new to you would provide the greatest challenges and is encouraged but not required. The key is to find one that you can learn from as you will be with it for a semester.*

COURSE REQUIREMENTS/ EVALUATION:

There will be points assigned to all assignments. Grades will be based on the total of points earned over the total points possible.

Final course evaluations will be given in whole letter grades according to the following scale:

A	90 – 100
B	80 – 89.99
C	70 – 79.99
D	60 – 69.99
F	< 60

COURSE POLICIES:**Assignments/ exercises:**

The exercises outlined above must be completed and submitted on Canvas by the dates specified by the instructor. Late assignments will be marked down three percent per day for up to one week. No assignment will be accepted more than one week late without an agreement with the instructor.

The structure of the class includes have reading assignments and on-line lectures. The assignments will be based on the lectures and reading assignments. There are reading assignments in the course schedule and there may be additional reading assignments. The first five lectures (four days) will be in the face-to-face format. The remaining classes will be on-line at the specified times

Assignments will be completed by the students and placed on Canvas for grading. Some will be word documents, some will be Excel and one will be a P6 Schedule. All can be submitted on Canvas and will be graded on Canvas. There will be a Rubric posted for each assignment before the due date.

There are four topics that will be covered on through on-line lectures followed by a short quiz. These will need to be completed by the due date stated.

The on-line classes will have the following agenda:

1. Discuss the previous assignments that were turned in. Student work will be used for the discussion. Since the assignments are due the night before we meet, the instructor will have time to grade some of the student work. One or two will be used in class to discuss the topic.
2. Discuss the Quiz lecture and the quiz.
3. Discuss the lecture for the next assignment (everyone shall have watched the lecture)
4. Go through the new class assignment.
5. Answering questions about the next assignment.
6. Go over any other class business

Assignments

The nature of the material in this course is subjective in nature and broad in scope. Assignments based on projects are the most appropriate form of student deliverables. Assignments will use a format consistent with the construction project deliverables.

Participation

There will be on-line discussions. These online discussions will be related to reading, lecture material, and assignments. All students are required to participate in all on line and face to face classes. Participation includes being there in mind and body, and contributing to the discussion.

ACADEMIC HONESTY:

It will be assumed that each student shall perform their own work. Discussion between students is encouraged to create a better understanding of the topic, but the deliverables are individual efforts. All portions of the Auburn University student academic honesty code (Title XII) found in the *Tiger Cub* will apply to this class. All academic honesty violations or alleged violations of the SGA Code of Laws will be reported to the Office of the Provost, which will then refer the case to the Academic Honesty Committee.

STUDENTS WITH DISABILITIES:

Students who need special accommodations in class, as provided for by the American Disabilities Act, should arrange a confidential meeting with the instructor during office hours the first week of classes - or as soon as possible if accommodations are needed immediately. You must bring a copy of your Accommodation Memo and an Instructor Verification Form to the meeting. If you do not have these forms but need accommodations, make an appointment with The Program for Students with Disabilities, 1244 Haley Center, 844.2096 (V/TT) or email: scw0005@auburn.edu

JUSTIFICATION FOR GRADUATE CREDIT:

Feedback and evaluation will incorporate rigorous professional standards and will be provided by faculty holding graduate faculty status. Graduate students will be expected to be able to synthesize and apply knowledge in a more comprehensive manner than undergraduates.