

SYLLABUS
CCE 5035 - CONSTRUCTION PLANNING & SCHEDULING
FALL 2012

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Office Hours Tue & Thur 9:00 – 10:00

Period 4 & 5 on Tuesday. Period 4 on Thursday

Section 1156 & 7878

Room wm 0202

Teaching Assistant:

Office Hours –

COURSE OBJECTIVES - The objectives of this course are to provide you with the tools and knowledge necessary to create network schedules for construction projects. You will gain an appreciation of the impact that accurate scheduling has on the success of a project and how schedules can be used to protect a contractor or owner in litigation involving project time. You will learn how linear scheduling is applied to horizontal civil projects and how PERT scheduling can be used under conditions of uncertainty.

BASIC COURSE INFORMATION -

Class preparation - Everyone should be prepared for the class by reading the required class assignments. The chapter material to be covered during each lecture is shown.

Working in teams - You should take away from this learning experience the things that you will need to succeed as practicing engineers in dealing with team members who may be located at a remote office or project location.

Homework - Homework assignments are listed in the syllabus. Some Homework assignments will be a team effort although most will be individual assignments. Additional information or changes to the assignments will be announced in class and posted on the website. **All students will be responsible for knowing changes in assignments and other requirements** by accessing the website and reading “***ANNOUNCEMENTS***.”

Presentation (communication) - Because of the size of this class, there will not be enough time available for team presentations; however, some assignments will require you to prepare a POWERPOINT presentation to turn in even though time does not allow for making these presentations in class. Requirements for formatting and content will be provided to you on the WEB site which is located at the “Sakai” site for WEBCT. You log into the WEBCT site using your GatorLink username and password. Students having trouble connecting with the WEBCT website should contact the EDGE office for assistance.

ACTIVITY	% OF GRADE	NOTES
Homework	30	*HW dates are shown in syllabus
Quizzes	0	Since there is no live broadcast for this course, it is impossible to give in-class quizzes and require the same of off-campus students
Final Project	30	A breakdown of this 30% requirement will be posted on the PROJECT section of the website
TESTS	40	Test dates are listed in syllabus
TOTAL	100 %	

* EDGE students, just as required of in-class students, have one-week from the assigned date to turn in the HW assignments.

CLASS ATTENDANCE - This is a graduate course. You are expected to come to class, but roll will not be taken. It is your responsibility to notify your team members if you are to be absent as most classes will involve in-class work on your teams.

HOMEWORK - Homework will count as 30% of the final grade

Final Project - A final project will be assigned to each team. The project will count as 30% of the final grade (10% Interim Requirement and 20% Final Project).

TESTS - There will be two tests during the term. Tests will count as 40% of your final grade

GUEST LECTURERS - When guest experts are available, the syllabus may be modified to accommodate their busy schedule. Since it is difficult to schedule these beforehand, I reserve the right to change the scheduled lecture to be able to include such expert presentations from practitioners as they may be available. If this occurs, I will then adjust the syllabus schedule to meet that person's availability. Suggestions for guest lecturers who may provide expert enlightenment are encouraged and welcomed. I am suggesting that if you feel you want to say, "we would benefit from having someone who is directly involved scheduling on construction projects and I know someone with X Corporation. I think I can get him/her to talk to our class;" please share this with the class and we'll make arrangements to get that person if they are available.

GRADING POLICY -

GRADING SCALE -

A = 93 - 100
A- = 90 - 92
B+ = 88 - 89
B = 83 - 87
B- = 80 - 82

C+	= 78 - 79
C	= 73 - 77
C-	= 70 - 72
D+	= 68 - 69
D	= 63 - 67
D-	= 60 - 62
E	< 60

Graduate students, in order to graduate, must have an overall GPA of 3.0 or better (B or better). Note: a B- average is equivalent to a GPA of 2.67, and therefore, it does not satisfy this graduation requirement. For more information on grades and grading policies, please visit: <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx> or <http://gradcatalog.ufl.edu/content.php?catoid=4&navoid=907#grades>

GENERAL INFORMATION - General information and announcements will be posted on the course Website. **Students will be responsible for checking the Website for any information that may effect assignments, exercises, presentation schedule or any other information that could become the responsibility of the student before the next class meeting.**

STUDENT SUGGESTIONS FOR COURSE CONTENT AND CONDUCT - The course can be made better through consideration of student's learning goals. Therefore, I would like each of you, after reading this syllabus, to list the things that are important for you to get from this course and e-mail them to me as soon as you can or by September 24th at the latest.

TEXT - The text for this course is: *Construction Planning and Scheduling* (3rd edition) by Jimmie W. Hinze

LECTURE / LAB	DATE	ACTIVITY AND MATERIAL TO BE COVERED	HW (date given*) & Chapter reading assignment
LEC. 1	8/23 Thur	Introduction to Planning and Scheduling	
LEC. 2	8/28	Basics concepts in Planning and Scheduling	Chapters 1
LAB. 1	8/30	LAB - Introduction to scheduling using Microsoft Project	Obtain MS Project
LEC. 3, 3b	9/04	Creating the Logic Diagram	Chapters 2 & 3
LAB. 2	9/06	LAB - Precedence Diagrams Using Microsoft Project	

LEC. 4, 4b	9/11	Determining Activity Durations	Chapters 4 HW #1,
LAB. 3	9/13	LAB – Formatting and Configuring a Schedule on MS Project.	
LEC. 4c	9/18	Example Problem from UF Project	Chapter 4 HW #2,
LAB. 4	9/20	LAB – Guest Lecture	
LEC. 5	9/25	Resource Allocation and Resource Leveling	Chapters HW #3
LAB. 5	9/27	LAB - Creating and assigning resources to the project.	
LEC. 6	10/02	Money and Network Scheduling	Chapters 6 HW #4,
LAB 6	10/4	LAB - Resource leveling and resource allocation	
LEC. 7	10/9	Term Project Lecture from Engineering Provider	Chapter 7 HW #5
LAB 7	10/11	LAB – Relationship of Cost and Schedule, Cashflow in MS Project.	
TEST	10/16	TEST #1	Chapter 7 HW #6,
LAB. 8	10/18	LAB – Other Scheduling Software	
LEC. 8, 8b	10/23	Updating schedules. Earned Value Analysis	Chapters 1 - 7
LAB. 9	10/25	LAB – Defining a Baseline, Updating a Schedule and generating an Earned Value Analysis.	
LEC. 9, 9b	10/30	Impact of Scheduling on Productivity	Chapter 10 HW #7,
LAB. 10	11/01	LAB – Optimization of Schedules on MS Project.	

LEC. 10c	11/06	CPM in dispute resolution.	Chapter 11 HW #8
LAB. 11	11/08	LAB – Reports on MS Project.	
LEC. 11	11/13	Short Interval Schedules Working with subcontractors	Chapter 12 HW #9,
LAB 12	11/15	LAB - Examples on linear scheduling	Chapter 14
LEC 12	11/20		Chapter 13 HW #10,
NO CLASS	11/22	THANKSGIVING	
LEC 13	11/27	Term Project Requirements Exercise	
LAB 13	11/29	Other Scheduling Techniques: Linear Scheduling and PERT	NO CLASS
TEST	12/04	TEST #2 LAST CLASS MEETING	Chapter 13
	12/06	FIRST AVAILABLE DAY TO - Turn in Final Projects	Chapter 14, 15 and 16. HW #11
	12/12	FINAL DAY TO TURN IN TERM PROJECTS	

* All HW is due for all students one week from the date given.

PM: Term Project Milestones Assigned

** Students required to bring laptop computers to labs for in-class work.

PROJECT MILESTONES

1. Create a Tree Diagram WBS
2. Define Dependencies
3. Quantity Take Off, Determine Durations
4. Create and Assign Resources
5. Develop Cashflow
6. Update the Schedule. Earned Value Analysis
7. Generating Reports

“In order to graduate, graduate students must have an overall GPA and an upper-division GPA of 3.0 or better (B or better). Note: a B- average is equivalent to a GPA of 2.67, and therefore, it does not satisfy this graduation requirement. For more information on grades and grading policies, please visit: <http://gradcatalog.ufl.edu/content.php?catoid=4&navoid=907#grades>”

Make-up Exam Policy - No make-up for Tests or assignments will be allowed without prior consent from the instructor or for a legitimate and documented emergency where notification ahead of time was impossible.

Honesty Policy - All students admitted to the University of Florida have signed a statement of academic honesty committing themselves to be honest in all academic work and understanding that failure to comply with this commitment will result in disciplinary action. This statement is a reminder to uphold your obligation as a UF student and to be honest in all work submitted and exams taken in this course and all others.

Accommodation for Students with Disabilities - Students requesting classroom accommodation must first register with the Dean of Students Office. That office will provide the student with documentation that he/she must provide to the course instructor when requesting accommodation.

UF Counseling Services - Resources are available on-campus for students having personal problems or lacking clear career and academic goals. The resources include:

- UF Counseling & Wellness Center, 3190 Radio Rd, 392-1575, psychological and psychiatric services.
- Career Resource Center, Reitz Union, 392-1601, career and job search services.

Software Use - All faculty, staff and student of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.