

CEE-679

CONSTRUCTION PROJECT MANAGEMENT

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Office Hours: Tuesdays & Thursdays: 2:00 – 3:00

ABSTRACT

This course provides an overview of construction engineering and management. It provides a brief initial introduction to the construction industry, and then focuses on specific aspects of project cycle, project funding, cash flow concepts, company legal and management structure, and labor cost and productivity. A series of focused individual assignments on specific topics covered in the course will be required in addition to a mid-term exam and a final exam.

TEXT

Halpin, Daniel W. and Woodhead, Ronald W. (1998) *Construction Management*. John Wiley & Sons, New York, NY.

DESCRIPTION

The course includes a combination of lectures, assigned readings, individual assignments, and two exams. It will focus on various aspects of constructionEngineering and management, and how construction projects can benefit from utilizing effective management. This course will further address problems unique to the complexities of the construction industry including resource management and control, productivity, funding and cashflow, contract administration, and legal structure.

Individual Assignments

- There are some **assignments** to be completed individually. All students will be expected to make a reasonable effort to find answers on their own or in collaboration with other students in the class, ask questions in a professional manner when necessary, and to hand in assignments which have a professional appearance. Collaboration among the students is encouraged, as long as the integrity of the student's individual work and contribution is maintained. ***Professional presentation, good organization, and proper documentation are very important components of the assignment grade. Assignments must be turned in by 5 p.m. on the day they are due. Late work (max two days after the specified deadline) will be graded with 50% deduction from the total score otherwise no points will be received.***

GRADING (UG)

The breakdown of the final grade is:

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|-----------------------------------|-------------|
| • Individual Assignments& quizzes | 30 % |
| • Mid Term Exam | 35 % |
| • Final Exam | <u>35 %</u> |
| Total: | 100 % |

GRADING (Graduate Student Only)

The breakdown of the final grade is:

- Individual Assignments& quizzes 10 %
 - Project Report 20 %
 - Mid Term Exam 35 %
 - Final Exam 35 %
- Total:** 100 %

<h2 style="margin: 0;">COURSE SCHEDULE</h2> <h3 style="margin: 0;">CEE 679 –Construction Project Management</h3>
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<u>Date</u>	<u>Lecture Topic</u>	<u>Assigned Readings</u>
<u>WEEK 1</u>	Review Course Syllabus	
	Introduction: Construction Industry	Chapter 1
<u>WEEK 2</u>	Project Cycle : Design Phase	Chapter 1
	Bidding and Bid Package	Chapter 2
<u>WEEK 3</u>	Project Cycle: Construction Phase	Chapter 3
	Construction Contracts	Chapter 4
<u>WEEK 4</u>	Value Engineering Partnering	
	Legal Structures	Chapter 5
<u>WEEK 5</u>	Project Cash Flow	Chapter 7
<u>WEEK 6</u>	Project Funding	Chapter 8
	MID-TERM EXAM	---
<u>WEEK 7</u>	Cost Control	Chapter 14
	Materials Management and Approval	Chapter 15
<u>WEEK 8</u>	Equipment Management	Chapter 9 & 10
	Construction Labor	Chapters 13
<u>WEEK 9</u>	Construction Safety	Chapters 16
	Work Break Down Structure and Estimating	Chapters 12
<u>WEEK 10</u>	Planning and Scheduling	Chapters 6
	Project communications and Documentations	
<u>WEEK 11</u>	FINAL EXAM WEEK	---