



General Information

Course Instructor: Dr. Adeeba A. Raheem

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Phone: 915-747-6348

Office: Civil Engineering (A213)

Office hours: Monday: 1.00pm-3.00pm

Wednesday: 1.00pm-3.00pm

Course website: <https://blackboardlearn.utep.edu/>

Dr. Raheem received her Ph.D. in Construction Management from the University of Florida (UF). She holds multiple master's degrees in Building Construction, Environmental Engineering and Civil Engineering from UF. Her research interests include construction management, construction safety and sustainable construction with emphasis on utilizing Building Information Modeling (BIM) and energy simulation tools and techniques. She has worked on various research studies focused on improving project management and planning process, enhancing workplace safety for workers and analyzing environmental performance of commercial and residential buildings. Dr. Raheem has published her research work in a variety of peer reviewed journals, including Safety Science, Building Simulation, Building Appraisal and ACSE Journal of Computing in Civil Engineering.

Course Credits: 3

Prerequisites or Co-requisites

Bachelor's Degree in Engineering, Physical Sciences or Business, or Instructor approval

Course Description

This course provides an understanding of construction management, including contracts, estimating, scheduling, subcontracting, cost control, claims, safety, quality and project closeout.

Course Learning Outcomes

At the end of this course, students will be able to:

LO1: Illustrate the construction project life-cycle

LO2: Identify the roles and importance of various stakeholders in any construction project

LO3: Differentiate between various project delivery methods

LO4: Compare typical contracts used in the construction industry

LO5: Prepare quantity and cost estimate of small residential and commercial projects

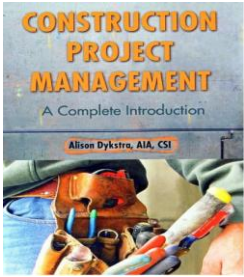
LO6: Identify schedule activities and assign reasonable durations to the activities

LO7: Create the control mechanisms and prepare accurate progress reports of the project

LO8: Create a comprehensive project management plan

MATERIAL NEEDED

1. Textbook



Construction Project Management: A Complete Introduction

Author: Alison Dykstra

ISBN-13: 978-0982703496

ISBN-10: 098270349X

Additional references: Hendrickson, Chris. *Project Management for Construction*, available free at <http://pmbook.ce.cmu.edu/>

Recommended reading: McCullough, David, *The Great Bridge*. Simon and Schuster, 1972. ISBN 978-0671-45711-2

2. Computer Activities

The computer activities are primarily assignments using MS Word/ Excel that is available for engineering students through the Microsoft DreamSpark Program (<http://etc.utep.edu/software/msdn.htm>). For any kind of technical help, please contact the Engineering Technology Center in the Engineering Bldg., Room E351 (Tel: (915) 747-5223; Email: etchelpdesk@utep.edu)

GRADING POLICY

Students will be responsible for weekly quizzes, class discussion/participation, assignments, and exams. Grades will be determined based on the following criteria.

Grade	Required Percentage of Available Points
A (Outstanding)	90 – 100
B (Very Good)	80 – 90
C (Satisfactory)	70 – 80
D (Unsatisfactory)	60 – 70
F (Failure)	less than 60

Grading Scheme

Percentage weight of each assignment category to the total grade is as follows:

	Categories					Discussion Board
	Quizzes	Assignments	Group Project	Final Exam	Feedback and course evaluation	
Weightage	15%	25%	15%	25%	5%	15%

DELIVERABLE STANDARDS & EXPECTATIONS

The class material is divided into seven modules. Each module consists of lectures and class assignments. Students will be responsible for all reading material assigned during each week.

- The final exam will consist of short written questions, MCQs, Fill-in-the-blanks and some real life situation analysis of construction problems. There will be **NO** makeup quizzes or exam unless there are extenuating circumstances.
- All the students (student groups will be formed by the instructor) have to submit a final project by the last week assigned by the instructor. The specifics of the submission will be provided during the second week of the session.
- Each week students have to provide **FIVE** comments including their own answers to discussion questions posted on the discussion board online. The comments should add to the discussion by sharing your experience or adding information that is missing. The comments such as great...really good..I enjoyed it...All answers are good...I agree etc. will **NOT** be considered for grading purposes.
- Late assignments will **NOT** be accepted. Each student will have **ONE** opportunity during a 7-week period to submit a late assignment within one day after the deadline is passed. **This doesn't apply to quizzes and discussion comments.**
- **Students are encouraged to provide feedback during the term to facilitate the positive learning environment. Students can send any suggestions/comments/concerns regarding the course/assignments structure or any related aspect. Instructor strongly believes in helping and listening to students during the semester when it affects them THE MOST. The link for the final course evaluation (5% of the final grade) will be sent to the students during the final week of the semester. After completing the evaluation, students have to send a screenshot to get the associated grade.**

TECHNOLOGY REQUIREMENTS

You will need the following software on your computer to efficiently work in this course. In some cases, your computer may already have some of these programs installed.

- Acrobat Reader. You can get the program by going to <http://www.adobe.com> and then clicking on the icon on the center of the screen which says "Get Adobe Reader". Follow instructions to install the reader.
- Adobe Flash Player. You can get the player by going to <http://www.adobe.com> and then clicking on "Get Adobe Flash Player". Follow instructions to install the player.
- Apple QuickTime Player. You can get this player by going to <http://www.apple.com>. Once there, click on the "Downloads" tab on the top of the page and then click on QuickTime "Download" and follow instructions.
- Microsoft Office. I recommend buying this if you do not have any word processing software or presentation software. As students, you can generally buy this whole package for about \$25, far less than the store price of approximately \$400.
- Microsoft Silverlight. You can download/update this add-on by going to <http://www.microsoft.com/silverlight/>. This will allow you to view embedded PowerPoint Presentations and PDF files embedded in the course lessons.

DIVERSITY

As an instructor, I am committed to creating an inclusive environment in which all students are respected and valued. I will not tolerate disrespectful language or behavior on the basis of age, ability, color/ethnicity/race, gender identity/expression, marital/parental status, military/veteran's status, national origin, political affiliation, religious/spiritual beliefs, sex, sexual orientation, socioeconomic status or other visible or non-visible differences. All members of this class are expected to contribute to a respectful, welcoming and inclusive environment for every other member of the class.

IMPORTANT REMINDERS

Course Schedule Changes

As course instructor, I reserve the right to adjust the course syllabus or change assignments as needed. I will make sure to give you plenty of notice prior to any changes.

Academic Dishonesty Statement

Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another person's as one's own. And, collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. Violations will be taken seriously and will be referred to the Dean of Students Office for possible disciplinary action. Students may be suspended or expelled from UTEP for such actions.

Academic dishonesty is an assault upon the basic integrity and meaning of a University. Cheating, plagiarism, and collusion in dishonest activities are serious acts which erode the University's educational and research roles and cheapen the learning experience not only for the perpetrators, but also for the entire community. It is expected that UTEP students will understand and subscribe to the ideal of academic integrity and that they will be willing to bear individual responsibility for their work. Materials (written or otherwise) submitted to fulfill academic requirements must represent a student's own efforts. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. Violations will be referred to the Dean of Students Office for possible disciplinary action. Students may be suspended or expelled from UTEP for such actions.

Notice of Safe Assign

This course may utilize third party software that has the ability to automatically detect plagiarism on documents submitted for grading.

Copyright Notice

Many of the materials that are posted within this course are protected by copyright law. These materials are only for the use of students enrolled in this course and only for the purpose of this course. They may not be further retained or disseminated.

Disabled Student Statement

In Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) of 1990, if a student needs an accommodation then the Office of Disabled Student Services located at UTEP need to be contacted. If you have a condition, which may affect your ability to perform successfully in this course, you are encouraged to discuss this in confidence with the instructor and/or the director of the Disabled Student Services. You may call (915) 747-5148 for general information about the American with Disabilities Act (ADA) and the rights that you have as a UTEP student with a disability. You also can visit the DSSO website at www.utep.edu/dsso or the DSSO office in Room 108 East Union Building. Individuals with disabilities have the right to equal access and opportunity. It is the student's responsibility to contact the instructor and The Disabled Student Services Office at The University of Texas at El Paso.

Technical Assistance

The University of Texas at El Paso offers complete technical information and help desk support at: <http://at.utep.edu/techsupport/>.

COURSE SCHEDULE*

Week	Topics	Readings	Deliverables	Associate Learning Outcomes
1	<ul style="list-style-type: none"> • Construction project and players • Project stages 	Text Chapters 3,4 PowerPoint 1	Assignment 1(A1) Quiz 1 Discussion 1	LO1, LO2
2	<ul style="list-style-type: none"> • Project delivery • Bidding and Procurement 	Text Chapters 6,8,9 PowerPoint 2	Assignment 2 (A2) Quiz 2 Discussion 2	LO1, LO3
3	<ul style="list-style-type: none"> • Construction Contracts • Estimating 	Text Chapters 10,11, 13 PowerPoint 3	Assignment 3 (A3) Quiz 3 Discussion 3	LO4, LO5
4	<ul style="list-style-type: none"> • Scheduling • Pre-construction and Mobilization 	Text Chapters 17, 19, 20 PowerPoint 4	Assignment 4 (A4) Quiz 4 Discussion 4	LO1, LO6
5	<ul style="list-style-type: none"> • Construction Phase • Construction claims and disputes 	Text Chapters 18,24 PowerPoint 5	Assignment 5 (A5) Quiz 5 Discussion 5	LO1, LO4
6	<ul style="list-style-type: none"> • Construction Safety • Changes in the work 	Text Chapter 22 PowerPoint 6	Assignment 6 (A6) Quiz 6 Discussion 6	LO7
7	<ul style="list-style-type: none"> • Construction payments • Close-out 	Text chapters 23,25 PowerPoint 7	Assignment 7 (A7) Discussion 7 Final project	LO1-LO8
Final day			Final Exam	

* Instructor reserves the right to adjust the course schedule as needed