

University of Texas at Tyler
Department of Civil and Construction Engineering and Management
Course Syllabus

1. Course number and name

CMGT 2302-Intro to Construction Management

2. Credits, contact hours

- a. 3.0 Credit Hours
- b. Three hours of lecture per week

3. Instructor's or course coordinator's names

Dr. Zain Al Houry

4. Textbook, title, author, and year

Construction Project Management 2nd Edition by Dykstra published by Kirshner ISBN 978-0-9827034-3-4 published

Work Breakdown Structures by Norman by Wiley ISBN 978-0-470-17712-9

5. Specific course information

- a) The concepts covered are introduction to construction industry, construction industry challenges, types of construction companies, contracts, people involved in a project, construction management process, fundamentals of estimating and scheduling, and introduction to advanced technology in the construction industry.
- b) Required

6. Specific goals for the course

CMGT 2302 Course Objectives:

1. Name the characteristics and challenges of the construction industry within the U.S. and role of construction manager/responsibilities.
2. Explain concepts relating to construction administration and project delivery systems, contracting requirements, project control and tracking, dispute resolution, safety, quality assurance and control, and bid process to contract award.
3. Apply principles of project scheduling/stages and explain network diagramming process leading to critical path method and calculations.
4. Explain basic construction estimates for time, labor, and materials.
5. Explain the latest techniques and how they are applied in the construction industry.

7. Topics covered

- Introduction to Construction Industry
- Construction Industry Challenges
- Construction management process
- Fundamental estimating and scheduling
- Introduction to advanced technology in the construction industry

8. Student Learning Outcomes

At the completion of the program, students should be able to	
SO 1	Identify, formulate, and solve broadly defined technical or scientific problems by applying knowledge of mathematics and science and/or technical topics to areas relevant to the discipline
SO 2	Formulate or design a system, process, procedure or program to meet desired needs
SO 3	Develop and conduct experiments or test hypotheses, analyze and interpret data and use scientific judgment to draw conclusions
SO 4	Communicate effectively with a range of audiences
SO 5	Understand ethical and professional responsibilities and the impact of technical and/or scientific solutions in global, economic, environmental, and societal contexts.
SO 6	Function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze the risk of uncertainty

9. Mapping Course to Student Learning Outcomes

The learning outcomes of this course contribute to meeting one or more of the student learning outcomes as shown below, with the contribution designated as “H-high”, “M-medium”, or “L-low”:						
	SO1	SO2	SO3	SO4	SO5	SO6
CLO 1					M	
CLO 2						
CLO 3				H		H
CLO 4						
CLO 5						

TENTATIVE COURSE SCHEDULE

The following schedule may be adjusted, as needed, during the semester to better serve the educational needs of the class.

COURSE SCHEDULE (SUBJECT TO REVISION)*			
Week	Date	Topic	Readings
WK 1	25-Aug	Class Syllabus/Course Obj./Intro.	Syllabus
	27-Aug	The construction industry: Overview and Trends	Chapter 1
WK 2	01-Sep	Green Instruction, Increased emphasis on Sustainability	Chapter 2
	03-Sep	Construction Projects and Players: Who are the CM players?	Instructor- Lecture Slides Chapter 3
WK 3	08-Sep	CM process: Project stage overview	Chapter 4
	10-Sep	Does this project make sense?	Chapter 5
WK 4	15-Sep	Project Delivery	Chapter 6
	17-Sep	Exam I Review	-
WK 5	22-Sep	EXAM I	-
	24-Sep	Career Fair Day (No Lecture)	-
WK 6	29-Sep	Course Project Tasks	Instructor-Lecture Slides
	01-Oct	BIM and Beyond	Instructor-Lecture Slides
WK 7	06-Oct	The CM Process: Feasibility / Programming and design	Chapter 7
	08-Oct	Bidding and awarding the job	Chapter 8
WK 8	13-Oct	Finding and Qualifying for the Right Job	Chapter 9
	15-Oct	Cardboard Canoe Project (No Lecture)	-
WK 9	20-Oct	Creating Estimates: Estimating Project Costs	Chapter 11
	22-Oct	Introduction to construction contracts (HEC Career Fair)	Chapter 13
WK 10	27-Oct	Construction Contracts	Chapter 14
	29-Oct	Contract documents: The specifications	Chapter 16
WK 11	3-Nov	Project Planning and Scheduling	Chapter 19
	5-Nov	Project Planning and Scheduling	Chapter 19
WK 12	10-Nov	BIM and beyond	Instructor- Lecture Slides
	12-Nov	Exam II REVIEW	-
WK 13	17-Nov	EXAM II	-
	19-Nov	Working on Team Project Report and Presentation	-
WK 14	24-Nov	THANKSGIVING BREAK (11/24 - 11/28)	-
	26-Nov		-
WK 15	1-Dec	Team Project Presentation	See Canvas for details and requirements
	3-Dec	Working on Team Project Report/ Report Submission	See Canvas for details and requirements
WK 16		No FINAL EXAM (12/07- 12/11)	

**Note: This is a tentative schedule, and subject to change as necessary – monitor the course page for current deadlines. In the unlikely event of a prolonged university closing, or an extended absence from the university, adjustments to the course schedule, deadlines, and assignments will be made based on the duration of the closing and the specific dates missed*

CMGT 2302- Introduction to Construction Management Course Policies & Student Responsibilities

Lecture Time & Venue

Meeting Time(s): Our course is scheduled from 2:00 PM-03:20 PM on Tuesday/Thursday

Course Number and Section: CMGT 2302, Section 052 (Tyler Campus) Section 053 (HEC Campus)

Classroom Number(s): Room HEC A0216(HEC Campus) or RBS 1031 (Tyler Campus) and as needed through the provided Zoom Portal below.

Join Zoom Meeting

<https://uttyler.zoom.us/j/84341498421?pwd=KLrbb8yD3MaVADUOO1JW1UucLwpCUx.1>

Meeting ID: 843 4149 8421

Passcode: 181531

Instructor Information

Instructor Name: Dr. Zain Al-Houri (zalhour@uttyler.edu)

Office Number: HEC A211

Office Hours (In Person or Virtual for Tyler Campus):

M/T/TH 11:15 AM – 12:15 PM, or

by appointment (BEST PRACTICE is to email me ahead of time to set up an appointment for when you would like to meet.

Virtual office hours Zoom Link:

<https://uttyler.zoom.us/j/83283691543?pwd=NUGTuL8702DeBlaEgMPL8rMOD3ZeEL.1>

Meeting ID: 832 8369 1543

Passcode: 279604

Course Website

Canvas will be used to manage the course material for the semester. All course materials and announcements will be provided in Canvas. There you will find homework assignments, homework solutions, handouts and other material pertaining to the class. **Please check there regularly.**

Sharing of course materials: Course material delivered via Canvas may NOT be shared online or with anyone outside of the class, without me granting express written permission. The term handouts refer to all materials generated for this class, which include but are not limited to syllabi, quizzes, exams, assignment sheets, recorded lectures, outlines, in-class materials, and review sheets. The unauthorized sharing of class materials outside of the class constitutes academic dishonesty and disciplinary action may be taken (see Policy on Academic Dishonesty below).

Contact

All course-related communication with the instructor must be sent through the **Canvas Inbox** rather than your regular UT Tyler Patriot email account. Your Patriot email should be used to contact me only if Canvas is unavailable or inaccessible. I will respond to messages as soon as possible; however, please allow **up to 2 business days** for a response.

Hybrid Policy

You will need a computer with reliable Internet access for some in-class activities. Please bring a microphone/headset as a backup in case of Zoom or classroom technology issues. Also, note that some lectures may be recorded and posted on Canvas as part of the course's hybrid learning approach. Students will be notified in advance.

Virtual Office Hours – Zoom Instructions

When joining my Virtual Office Hours via Zoom, please follow these requirements:

- Use your UT Tyler account to join the Zoom meeting. Please do not use a personal Zoom account.
- Turn on your camera when you join the meeting.
- Make sure your first and last name are displayed correctly on Zoom.
- *These requirements help me identify students and maintain a professional and productive environment during virtual office hours.*

Attendance Policy

- Attending lectures regularly is the critical step for you to succeed in this class. Students are expected to attend class and take their own notes during lectures. If a class is missed, students are still responsible for all material covered. Presentation slides will be posted in the appropriate section of the CANVAS modules, but they are intended to support—not replace—your personal notes.

AI Policy

- You can only use AI for grammar checking for this course assignment.
- You need to clearly acknowledge the use of AI in your homework

Course Structure

- This course is mainly lectures and projects. You are required to attend each lecture, participate in the class discussion, and actively contribute to your group project.
- This course includes several homework assignments and pop-up quizzes.
- Two exams are scheduled for this course and no final exam for this course.
- One team project is included for this course.

Grading Breakdown

The following components contribute to your final grade*:

Assessment Component	Weight	Final Grade: Scale
Homework	10 %	90-100: A
In Class Activities/Quizzes	10 %	80-89: B
Midterm Exams (2)	50 %	70-79: C
Course Project	15 %	60-69: D
Professional Practice & Ratliff Relay Project	15 %	<60: F

**NOTE: There will be no makeup work or extra credit allowed/granted at the end of or during the semester unless allowed/granted to everyone by the instructor. All assignments must be turned in at the appropriate time to receive credit.*

Graded Course Requirements Information

Homework Assignments

- Homework will be assigned on a regular basis (Refer to Course Page on Canvas for Homework assignment schedule).
- The homework assignments cover all contents from lectures, textbooks, readings and class discussion.
- You must upload your homework to Canvas as a single PDF file no later than 11:59 p.m. on the due date. Images or photos that are unclear, incomplete, or do not show the entire A4 page will not be accepted.
- No late homework will be accepted except for unusual circumstances.
- Solutions should be presented in a clear methodical manner. Follow the “homework submission guidelines” when completing your assignment. Solutions which are not clearly presented will receive a 0 credit.

- Students may discuss their homework solutions with one another, but each student must submit their own, independent solutions (i.e. you may not just copy someone else's homework). If you receive assistance from a fellow student on a particular problem, you must cite that assistance within your solution.

Homework Submission Guidelines

- The header of the first page should include the following:
 - Name of Student: LAST NAME, FIRST NAME (All Caps)
 - Course Number and Name
 - Homework Number
- All assignments should be presented in a clear, organized, and professional manner. As applicable, submissions should include:
 - Problem/question number
 - Relevant diagram or sketch
 - Given information
 - Required information
 - Assumptions
 - Analysis or approach
 - Final answer, recommendation, or conclusion
- Points will be deducted for submissions that do not meet these requirements.

AI Use and Citation Policy for Homework

If you use a generative AI tool (such as ChatGPT) to assist with a homework assignment, you must clearly indicate this in your submission. Your acknowledgment should include the AI tool used (e.g., ChatGPT by OpenAI), the date accessed, and a brief description of how the tool was used (e.g., checking an answer, explaining a concept, or assisting with problem solving). Failure to properly acknowledge the use of AI assistance will be treated as academic dishonesty.

Example Citation:

The solution to this problem is generated with the assistance of ChatGPT (OpenAI), accessed on [date], to help brainstorm solution steps. The final work was reviewed, revised, and completed by the student.

Late Homework/ Assignment Policy

- It is a basic principle of professionalism that “Professionals are not late.”
- A “COORDINATED LATE” submission occurs when you miss the suspense for a graded homework assignment, and you contact me in advance. Notification immediately before the submission will not suffice.
- Point cuts up to the amounts below may be assessed for a “COORDINATED LATE” submission:
 - 0-24 hours late a deduction of 25% of the earned grade
 - 24-48 hours late a deduction of 50% of the earned grade
 - More than 48 hours late No credit.
- Late submission might be accepted if (1) you contact me at least 48 hours in advance of the assignment and quiz deadline (2) with official proof. Example of acceptable official proof: medical record, academic conference invitation etc.

Quizzes

- The instructor may give unannounced or announced in-class quizzes throughout the semester. The quizzes are usually due at the end of the lecture. Attending the lecture regularly is highly recommended to get access to all the quizzes.

Team Project

- The team project includes two deliverables: (1) in-class presentation, (2) a report summarizing your findings written in an academic manner.
- Detailed information will be discussed in the lectures.
- Refer to the class schedule and the course Canvas page for the submission due date.

In-Class Activities

Active participation in class is an essential component of this course. In-class activities and exercises are designed to reinforce key concepts, help you prepare for the exams and quizzes, and encourage collaboration among peers. These activities may include, but are not limited to:

- Answering questions related to lecture topics.
- Engaging in group discussions
- Completing short individual or team-based assignments.
- Participating in real-time quizzes or polls to assess understanding.

In-class activities must be completed and submitted by the end of each class session. These activities will cover topics discussed during that class. Late submissions of in-class activities will not be accepted. In-class activities will be graded only for students who attend the class in person.

Professional Practice Assignment

- During the semester, a portion of your grade in this course will be derived from a level of professional practice expectations. These expectations include a professional demeanor and work ethic (attitude), consistent daily preparation (assignment reading, homework completed on time, etc.), and commitment to learning and fulfilling the Cardboard Canoe Project
- 10% is allocated to the cardboard canoe project
- The Ratliff Relay Event is scheduled for:
 - October 17th, 2026 (Tyler Campus)
 - October 24th, 2026 (HEC campus)
- Refer to the class schedule and the course Canvas page for the submission due date.

Midterm Exams

- There will be two exams in this course. The exams are tentatively scheduled as follows:
 - Exam 1: Tuesday, Sep 22
 - Exam 2: Tuesday, Nov 17
- Exams dates may be moved up or pushed back depending on the progress of the lectures.
- The purpose of these examinations is to assess your command of the material we've covered in a particular unit.
- Each exam will contain MC, T/F, and short answer questions. We'll take some time in the week before an exam to talk about study strategies, and I'll be happy to answer any review questions you may have, but bear in mind that the best way to prepare for these exams is to keep up with the readings and our in-class activities.
- The exams are closed books. You can use a TI-30 calculator (or FE equivalent see calculator policy below), and instructor approved reference material.
- Use the restroom prior to coming to class to take an exam. Suspicious restroom breaks in the middle of an exam are not acceptable.
- I do not give exam back. **Exam solutions will NOT be posted on Canvas. However, students are welcome to review exam solutions with the instructor, either in person or virtually. Please note that taking photographs or making copies of exam papers or solutions is not permitted during the review process.**
- All exams will be held in person during class time. Additional information will be provided in class

Late Work and Make-Up Exams

- There will be no makeup work or extra credit allowed/granted at the end of or during the semester unless allowed/granted to everyone by the instructor. All assignments must be turned in at the appropriate time to receive credit.
- Failure to take the exam at the scheduled time will constitute a grade of zero in the exam.

- Official reasons for missing an exam are outlined in the UT Student Handbook. Report any conflict to me as soon as possible prior to the Exam. You are required to take a make-up Exam, regardless of your reason for missing the scheduled Exam.

Regrade Requests

- If you have questions or concerns about your grades, you must discuss them with me within 15 days after the grades are posted. Students in the Houston section may attend my office hours, while students in the Tyler section should schedule a virtual meeting. You are responsible for checking your grades regularly on Canvas to monitor your progress in the course. If you have questions or concerns about your grades, you must discuss them with me within 15 days after the grades are posted. Students in the Houston section may attend my office hours, while students in the Tyler section should schedule a virtual meeting. You are responsible for checking your grades regularly on Canvas to monitor your progress in the course.

Classroom Procedures

- Your presence in the class is essential, as much of your grade will depend on what we accomplish during class meetings. I understand that emergencies or unexpected situations may occasionally prevent you from attending. If this happens, please notify me as soon as possible so we can make arrangements to help you catch up. However, this does not apply to non-emergencies, such as oversleeping. For absences due to university-sponsored activities, please coordinate with me in advance to address any missed work. If your absence from class becomes excessive you may be asked by the instructor to withdraw from the class.
- You will need a computer with reliable Internet access for some in-class activities. Please bring a microphone/headset as a backup in case of Zoom or classroom technology issues.
- It is a basic principle of professionalism that “Professionals are not Late.” Please come to class on time and leave on time. Interruption of lecture is not acceptable. Normally an excuse would be given for being late or missing that class if you have a valid verified urgent emergency or some validated significant act of nature or God like a car accident.
- **NO FOOD OR SNACKS IN CLASSROOMS.**
- Phones ringing or vibrating are distracting during class or if you are texting during class, you will relinquish your device for the duration of the class. A second offense will result in a request for you to leave the classroom.

Communication & Support

- Students are expected to display proper netiquette (Internet etiquette) with their instructor and with other students. This includes being polite, stating your needs clearly and politely. **Practice collegiality and mutual respect in writing emails for this course, as it is an essential skill in the construction industry.** If an email or discussion post ever concerns you, please notify me privately and we'll work toward a resolution.
- In general, the most efficient way to communicate and to get the help you need with your questions and/or concerns is during office hours. If you are unable to meet during my office hours, you may contact me through the Canvas Inbox to schedule a time that works for you. Please maintain a professional tone in all written communications. Follow the guidelines below when preparing your correspondence:

- Include a subject Line
- Add “[Course Prefix and #]”
- Use a greeting
- Sign the end of your email with your name and a thank you
- State your needs clearly and politely!



- Demand help
- Be ambiguous with your need
- Use slang or inappropriate language
- Email past 7 pm and expect an answer before school in the next day
- Send an email and never check for a response!



Final Day to Withdraw

The final day to withdraw from the course without penalty is **Sep 16th**.

The last day to withdraw from the course is **Oct 30**.

Census Dates

The university requires that instructors report the attendance to the register at various points in the semester.

Therefore, on **September 8th**, I will report the attendance for the class.

UT Tyler Honor Code

Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

Chat GPT or other AI sources

Students may use AI-based writing programs only for homework assignments, and any AI-generated content must be properly cited or referenced. The use of AI tools on exams or quizzes is strictly prohibited. Unauthorized use will be considered cheating according to the Academic Dishonesty policy below.

Academic Misconduct

Plagiarism of homework and cheating on examinations will be interpreted as academic misconduct and will not be tolerated. Please refer to the University of Texas at Tyler current Undergraduate Catalog for academic policies and Manual of Policies and Procedures for Student Affairs (MOPPS, Chapter 8) regarding academic integrity, cheating and plagiarism. Academic dishonesty will not be tolerated. Ignorance of the rules and policies provides no protection from the consequences.

Technical Support

For technical problems with Canvas, contact UT Tyler 24/7 Canvas Support, which can be accessed by clicking Help at the bottom of the Global Navigation menu on the far-left side of the browser window. For login/password problems or support for other technical issues, contact Campus Computing Services at 903-565-5555 or itsupport@uttyler.edu.

University Policies & Student Resources

University policies and student resources are available on the University website and in Course home page on Canvas:

- [University Policy](#)
- [Student Resources](#)

Artificial Intelligence Statement

UT Tyler is committed to exploring and using artificial intelligence (AI) tools as appropriate for the discipline and task undertaken. We encourage discussing AI tools' ethical, societal, philosophical, and disciplinary implications. All uses of AI should be acknowledged as this aligns with our commitment to honor and integrity, as noted in UT Tyler's Honor Code. Faculty and students must not use protected information, data, or copyrighted materials when using any AI tool. Additionally, users should be aware that AI tools rely on predictive models to generate content that may appear correct but is sometimes shown to be incomplete, inaccurate, taken without attribution from other sources, and/or biased. Consequently, an AI tool should not be considered a substitute for traditional approaches to research. You are ultimately responsible for the quality and content of the information you submit. Misusing AI tools that violate the guidelines specified for this course is considered a breach of academic integrity. The student will be subject to disciplinary actions as outlined in UT Tyler's Academic Integrity Policy. Refer to the About This Course section of the UT Tyler Syllabus Module for specific information on appropriate use of AI in your course(s).