

INTRO TO CONSTRUCTION MANAGEMENT (CMGT 2302)

Term: Fall 2024

Course Times & Classroom:

- Tuesday and Thursday: 2:00 PM to 3:20 PM
- RBS 1031

Professor: Dr. Chi Tian

Email: ctian@uttyler.edu (Preferred communication method)

Email subject: [#Course + #HW]

Office Hours: Monday & Wednesday, 12:30 PM to 2:00 PM or by appointment

Office: RBS 1006

Course Dates: Aug. 26, 2024 – Dec. 14, 2024

Course Overview

In this course we will study the characteristics of the construction industry to include the types of construction companies; contracts; people involved in a project, their responsibilities and interrelationships; evolution of a project; interpreting working drawings; construction bonds; contract documents.

A tentative schedule for this course is attached in the Section of Calendar of Topics, Readings, and Due Dates.

Student Learning Outcomes

We will explore construction management as a profession. We will look at the public policy environment we work in, and we will explore professional ethical conduct, professional organizations, and the law surrounding construction industry and profession. Specific course objectives are:

- Explain the characteristics and challenges of the construction industry within the U.S. and role of construction manager/responsibilities.
- 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.
- Explain principles of project scheduling/stages and explain network diagramming process leading to critical path method and calculations.
- Explain basic building construction estimates for time, labor, and materials.
- Learn the latest techniques and how they are applied in the construction industry.

Required Textbooks and Readings

Required Textbooks

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

Suggested Textbooks

- **Work Breakdown Structures by Norman published by Wiley ISBN 978-0-470-17712-9**
- Additional Readings:**

Readings: Several readings will be posted on Canvas.

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.

Graded Course Requirements Information

Homework Assignments and Pop-up Quizzes

- The homework assignments cover all contents from lectures, textbooks, readings and class discussion.
- The quizzes are unannounced. **Please note, there will be no chances for a pop-up quiz make up. Attending all lectures is the only way to not miss a pop-up quiz.**

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.

Exams

- Two exams cover lectures, textbook, readings and class discussion.
- No final exam is scheduled for this class.

Professional Practice

- 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.), commitment to learning and fulfilling the assigned projects (such as Cardboard Canoe Project).
- 10% is allocated to the cardboard canoe project.

AI Policies:

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

Grading Policies

- Late submissions: It is a basic principle of professionalism that “Professionals are not late”. Deductions to your assignments grade for late submission will be given as follows:
 - 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. Assignments must still be submitted to get a grade for this course.**
- Re-grade requests: You must come to my office hours if you have questions about your grades within **15 days** after they are posted. You should check your posted grades on Canvas regularly to track your progress.

Grading Structure

Content	Percentage %
Professional practice expectations	15%
Homework and Pop Quizzes	20%
Team Project	15 %
Exam 1	25%
Exam 2	25%
Total	100%

Grading Scale

- **A** - (90% or higher)
- **B** - (80 - 89%)
- **C** - (70 - 79%)
- **D** - (60 - 69%)
- **F** - (Below 60%)

Calendar of Topics, Readings, and Due Dates

Please note, the schedules are tentative and subject to change.

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<i>Week #</i>	<i>Date</i>	<i>Class Topic</i>	<i>Readings</i>	<i>Assignments Due</i>
Week 1	T 8/27	Class Syllabus/Course Obj./Intro.	CANVAS Module Public Policy and Chapter 1 and 2	
	Th 8/29	The CM process and Who are the CM players?	Chapter 3	
Week 2	T 9/3	The CM Process: Bid Book	Chapter 4	
	Th 9/5	The CM Process: Team Strategy	Chapter 5 and 6	
Week 3	T 9/10	The CM Process: Design	Chapter 7	
	Th 9/12	The CM Process: Bid and Win	Chapter 8	
Week 4	T 9/17	Exam Review		
	Th 9/19	Exam #1		
Week 5	T 9/24	BIM		
	Th 9/26	Robotics		
Week 6	T 10/1	Machine Learning		
	Th 10/3	VR and AR		
Week 7	T 10/8	CM Process Contracts	Chapter 13-14	
	Th 10/10	The Agreement	Chapter 15	
Week 8	T 10/15	Special G&Cs and Specs	Chapter 16-17	
	Th 10/17	G&C, Special and Specs/Mobilization	Chapter 18	
Week 9	T 10/22	Project Coordination	Chapter 19	
	Th 10/24	Project Monitoring and EVM Reporting	Chapter 20-23	
Week 10	T 10/29	Change Orders	Chapter 24	
	Th 10/31	Canoe Day		
Week 11	T 11/5	Getting paid	Chapter 25	
	Th 11/7	Claims/Disputes/Liens/ Project Turn Over	Chapter 26, 27	
Week 12	T 11/12	Team Project Presentation		
	Th 11/14	Team Project Presentation		
Week 13	T 11/19	Team Project Presentation		
	Th 11/21	Team Project Presentation		
Week 14	T 11/26	Thanksgiving holidays!		
	Th 11/28			
Week 15	T 12/3	Exam Review		
	Th 12/5	Exam #2		

Final Exam	No Final Exam
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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.

Attendance Policy:

Regularly attending lectures is essential for success in this class. Punctual attendance at all lectures is mandatory.

Student Resources:

Resources available to UT Tyler Students

- [UT Tyler Counseling Center](#) (available to all students)
- [MySSP App](#) (24/7 access to Student Support Program counseling through phone or chat and online wellness resources available in a variety of languages)
- [Student Assistance and Advocacy Center](#)
- [Military and Veterans Success Center](#) (supports for our military-affiliated students)
- [UT Tyler Patriot Food Pantry](#)
- [UT Tyler Financial Aid and Scholarships](#)
- [UT Tyler Student Business Services](#) (pay or set up payment plans, etc.)
- [UT Tyler Registrar's Office](#)
- [Office of International Programs](#)
- [Title IX Reporting](#)
- [Patriots Engage](#) (available to all students. Get engaged at UT Tyler.)

University Policies and Information

Withdrawing from Class

Students may [withdraw](#) (drop) from this course using the [Withdrawal Portal](#). Withdrawing (dropping) this course can impact your Financial Aid, Scholarships, Veteran Benefits, Exemptions, Waivers, International Student Status, housing, and degree progress. Please speak with your instructors, consider your options, speak with your advisor, and visit the One-Stop Service Center (STE 230) or email enroll@uttyler.edu to get a complete review of your student account and the possible impacts to withdrawing. We want you to make an informed decision. UT Tyler faculty and staff are here for you and often can provide additional support options or assistance. Make sure to carefully [read the implications for withdrawing from a course and the instructions](#) on using the [Withdrawal portal](#).

Texas law prohibits students from dropping more than six courses during their entire undergraduate career*. The six courses dropped includes those from other 2-year or 4-year Texas public colleges and universities. Consider the impact withdrawing from this class has on your academic progress and other

areas, such as financial implications. We encourage you to consult your advisor(s) and Enrollment Services for additional guidance. **CAUTION #1:** Withdrawing before census day does not mean you get a full refund. Please see the [Tuition and Fee Refund Schedule](#). **CAUTION #2:** All international students must check with the [Office of International Programs](#) before withdrawing. All international students are required to enroll full-time for fall and spring terms. **CAUTION #3:** All UT Tyler Athletes must check with the Athletic Academic Coordinator before withdrawing from a course. **CAUTION #4:** All veterans or military-affiliated students should consult with the [Military and Veterans Success Center](#).

* Students who began college for the first time before 2007 are exempt from this law.

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).*

Final Exam Policy

Final examinations are administered as scheduled. If unusual circumstances require that special arrangements be made for an individual student or class, the Dean of the appropriate college, after consultation with the faculty member involved, may authorize an exception to the schedule. Faculty members must maintain student final examination papers for a minimum of three months following the examination date.

Incomplete Grade Policy

If a student, because of extenuating circumstances, is unable to complete all of the requirements for a course by the end of the semester, then the instructor may recommend an Incomplete (I) for the course. The "I" may be assigned in place of a grade *only when all of the following conditions are met:* (a) the student has been making satisfactory progress in the course; (b) the student is unable to complete all coursework or final exam due to unusual circumstances that are beyond personal control and are acceptable to the instructor, and (c) the student presents these reasons before the time that the final grade roster is due. The semester credit hours for an Incomplete will not be used to calculate the grade point average.

The student and the instructor must submit an Incomplete Form detailing the work required and the time by which the work must be completed to their respective department chair or college dean for approval. The time limit established must not exceed one year. Should the student fail to meet all of the work for the course within the time limit, then the instructor may assign zeros to the unfinished work, compute the course average for the student, and assign the appropriate grade. If a grade has yet to be assigned within

one year, then the Incomplete will be changed to an F, or NC. If the course was initially taken under the CR/NC grading basis, this may adversely affect the student's academic standing.

Grade Appeal Policy

Disputes regarding grades must be initiated within sixty (60) days from the date of receiving the final course grade by filing a Grade Appeal Form with the instructor who assigned the grade. A grade appeal should be used when the student thinks the final course grade awarded does not reflect the grades earned on assessments or follow the grading scale as documented in the syllabus. The student should provide the rationale for the grade appeal and attach supporting document about the grades earned. The form should be sent via email to the faculty member who assigned the grade. The faculty member reviews the rationale and supporting documentation and completes the instruction section of the form. The instructor should return the form to the student, even if a grade change is made at this level. If the student is not satisfied with the decision, the student may appeal in writing to the Chairperson of the department from which the grade was issued. In situations where there is an allegation of capricious grading, discrimination, or unlawful actions, appeals may go beyond the Chairperson to the Dean or the Dean's designee of the college from which the grade was issued, with that decision being final. The Grade Appeal form is found in the [Registrar's Form Library](#).

NOTE: The Grade Appeal Form is different from the Application for Appeal form submitted to the Student Appeals Committee, which does not rule on grade disputes as described in this policy.

Disability/Accessibility Services

In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA), the University of Texas at Tyler offers accommodations to students with learning, physical, and/or psychological disabilities. If you have a disability, including a non-visible diagnosis such as a learning disorder, chronic illness, TBI, PTSD, ADHD, or a history of modifications or accommodations in a previous educational environment, you are encouraged to visit <https://hood.accessiblelearning.com/UTTyler/> and fill out the New Student application. The Student Accessibility and Resources (SAR) office will contact you when your application has been submitted and an appointment with the Assistant Director Student Accessibility and Resources/ADA Coordinator. For more information, including filling out an application for services, please visit the SAR webpage at <https://www.uttyler.edu/disability-services>, the SAR office located in the Robert Muntz Library, LIB 460, email saroffice@uttyler.edu, or call 903.566.7079."

Military Affiliated Students

UT Tyler honors the service and sacrifices of our military-affiliated students. If you are a student who is a veteran, on active duty, in the reserves or National Guard, or a military spouse or dependent, please stay in contact with your faculty member if any aspect of your present or prior service or family situation makes it difficult for you to fulfill the requirements of a course or creates disruption in your academic progress. It is important to make your faculty member aware of any complications as far in advance as possible. Your faculty member is willing to work with you and, if needed, put you in contact with university staff who are trained to assist you. The [Military and Veterans Success Center \(MVSC\)](#) has campus resources for military-affiliated students. The MVSC can be reached at MVSC@uttyler.edu or via phone at 903.565.5972.

Students on an F-1 Visa

To remain in compliance with Federal Regulations requirements you must do the following:

- Traditional face-to-face classes: Attend classes on the regular meeting days/times.
- Hybrid Classes: Attend all face-to-face classes convened by the instructor according to the schedule set for your specific course.
- Online course: Only one online course can count toward your full-time enrollment. Students are expected to be fully engaged and meet all requirements for the online course.

Academic Honesty and Academic Misconduct

The UT Tyler community comes together to pledge that "Honor and integrity will not allow me to lie, cheat, or steal, nor to accept the actions of those who do." Therefore, we enforce the [Student Conduct and Discipline policy](#) in the Student Manual Of Operating Procedures (Section 8).

FERPA

UT Tyler follows the Family Educational Rights and Privacy Act (FERPA) as noted in [University Policy 5.2.3](#). The course instructor will follow all requirements to protect your confidential information.

Absence for Official University Events or Activities

This course follows the practices related to [Excused Absences for University Events or Activities](#) as noted in the Catalog.

Absence for Religious Holidays

This course follows the practices related to [Excused Absences for Religious Holy Days as noted in the Catalog](#).

Absence for Pregnant Students

This course follows the requirements of Texas Laws SB 412, SB 459, SB 597/HB 1361 to meet the needs of pregnant and parenting students. Part of the supports afforded pregnant students includes excused absences. Faculty who are informed by a student of needing this support should make a referral to the Parenting Student Liaison. NOTE: Students must work with the Parenting Student Liaison in order to receive these supports. Students should reach out to the Parenting Student Liaison at parents@uttyler.edu and also complete the [Pregnant and Parenting Self-Reporting Form](#).

Campus Carry

We respect the right and privacy of students who are duly licensed to carry concealed weapons in this class. License holders are expected to behave responsibly and keep a handgun secure and concealed. More information is available at <http://www.uttyler.edu/about/campus-carry/index.php>.