



CONE 433.01E CONSTRUCTION PROJECT CONTROLS

COURSE SYLLABUS: FALL 2026

INSTRUCTOR INFORMATION

Instructor: Mohamed Yamany, Ph.D., PMP, PMO-CP, Assistant Professor

Office Location: AG/ET 118A

Office Hours: M, W 11:00 am - 12:00 pm and 1:00 pm – 2:00 pm or by appointment.

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Preferred Form of Communication: Office Hours or Email

Communication Response Time: 24-48 hours typically

Course Times: MW 09:30am – 10:45am

COURSE INFORMATION

Textbook:

- Project Control: Integrating Cost and Schedule in Construction
- Author: Wayne J. Del Pico, CPE
- Publisher: John Wiley & Sons, Inc.
- ISBN: 9781118139233

Tools/Software used for instruction:

The following software will be used:

- Primavera
- Microsoft Project
- Microsoft Excel

The syllabus/schedule are subject to change.

Course Description

This course introduces the fundamental principles and practices of Construction Project Controls, with emphasis on monitoring and controlling project schedule, cost, and performance throughout the construction lifecycle. Students will learn practical techniques for schedule updating, progress measurement, earned value management (EVM), productivity analysis, delay analysis, schedule compression, forecasting, and project performance reporting. Through problem-solving exercises and real-world scenarios, students will develop the analytical and decision-making skills needed to evaluate project performance and recommend effective corrective actions.

Student Learning Outcomes

This course emphasizes practical problem solving through instructor-guided examples, in-class exercises, and homework assignments. Students will develop the skills needed to monitor project performance, analyze schedule and cost data, evaluate productivity, forecast project outcomes, and support project management decisions using industry-standard project control techniques.

Upon completion of this course, students will be able to:

- Explain the role of project controls in construction projects.
- Update construction schedules using actual project data.
- Measure project progress using appropriate percent-complete methods.
- Apply Earned Value Management (EVM) to evaluate project performance.
- Analyze labor and equipment productivity.
- Interpret project reports and performance indicators to support decision making.
- Analyze construction delays and evaluate their impacts.
- Apply schedule compression techniques, including crashing and fast tracking.
- Forecast project completion time and cost.
- Recommend corrective actions based on project control analyses.

COURSE REQUIREMENTS

Minimal Technical Skills Needed

Scientific calculator, Microsoft Word, Excel, and PowerPoint.

Instructional Methods

This course utilizes lectures, and assignments to assist students in achieving the course learning outcomes.

Student Responsibilities or Tips for Success in the Course

Students should attend the lectures and deliver the assignments in a timely manner.

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GRADING

Final grades in this course will be based on the following scale:

A = 90%-100%

B = 80%-89%

C = 70%-79%

D = 60%-69%

F = 59% or Below

Weights of the assessments in the calculation of the final letter grade.

Grading Criteria		Score
1	In-class Exercises & Assignments	50
2	Midterm Exam	20
3	Final Exam	30
Total		100

TECHNOLOGY REQUIREMENTS

LMS

All course sections offered by East Texas A&M University have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm

YouSeeU Virtual Classroom Requirements:

<https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements>

ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@tamuc.edu.

The syllabus/schedule are subject to change.

Note: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, an ETAMU campus open computer lab, etc.

COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your instructor.

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

Interaction with Instructor Statement

The instructor will response to your questions on D2L tools within 48 hours. For urgent questions, and for questions that are not answered within 48 hours, please prefer e-mail correspondence.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

1. One day late assignment is accepted with a 15% grade deduction; after this, no assignment will be accepted.
2. You will be expected to do all the readings throughout the semester.
3. Each exam will be given in class. Exams are closed book and notes (necessary formulas will be provided on a separate page). Students will need a scientific calculator for exams. Cell phones are not acceptable as a calculator. Use of unauthorized aids on exams will result in a grade of zero.
4. The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.
5. No make-up exams will be permitted unless official documentation for absences is provided (e.g., death in the family, illness).

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East Texas A&M University acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources.

13.99.99.R0.03 Undergraduate Academic Dishonesty

13.99.99.R0.10 Graduate Student Academic Dishonesty"

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

University Specific Procedures

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the [Student Guidebook](http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx).

<http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum:

<https://www.britannica.com/topic/netiquette>

ETAMU Attendance

For more information about the attendance policy please visit the [Attendance](#) webpage and [Procedure 13.99.99.R0.01](#).

<http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf>

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Academic Integrity

Students at East Texas A&M University are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

[Undergraduate Academic Dishonesty 13.99.99.R0.03](#)
[Undergraduate Student Academic Dishonesty Form](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/documents/13.99.99.R0.03UndergraduateStudentAcademicDishonestyForm.pdf>

[Graduate Student Academic Dishonesty Form](#)

<http://www.tamuc.edu/academics/graduateschool/faculty/GraduateStudentAcademicDishonestyFormold.pdf>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

Students with Disabilities-- ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

East Texas A&M University

Velma K. Waters Library Rm 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: studentdisabilityservices@tamuc.edu

Website: [Office of Student Disability Resources and Services](#)

<http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

Nondiscrimination Notice

East Texas A&M University will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

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Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in East Texas A&M University buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun.

Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and East Texas A&M Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

Web url:

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all East Texas A&M campuses. Report violations to the University Police Department at 903- 886-5868 or 9-1-1.

COURSE OUTLINE / CALENDAR

Week	Date	Class Topic
1	Mon. Aug. 24	Introduction to Construction Project Controls and the Project Control Cycle
	Wed. Aug. 26	Project Baselines (Scope, Schedule, Cost) and Performance Measurement
2	Mon. Aug. 31	Schedule Updating I – Data Date, Actual Start, Actual Finish
	Wed. Sept. 2	Schedule Updating II – Remaining Duration, Rescheduling, Critical Path Changes
3	Mon. Sept. 7	Labor Day – No Class
	Wed. Sept. 9	Measuring Percent Complete I – Units Completed, Cost Ratio, Man-hour Ratio, Duration Ratio, Worktime Unit
4	Mon. Sept. 14	Measuring Percent Complete II – Other methods including weighted units
	Wed. Sept. 16	Measuring Percent Complete III – Comprehensive Problems
5	Mon. Sept. 21	Earned Value Management I – PV, EV and AC
	Wed. Sept. 23	Earned Value Management II – CV, SV, CPI and SPI
6	Mon. Sept. 28	Earned Value Management III – EAC, ETC, VAC and TCPI
	Wed. Sept. 30	Comprehensive Earned Value Management Problems
7	Mon. Oct. 5	Productivity Monitoring – Labor and Equipment Productivity
	Wed. Oct. 7	Project Reporting and Management Decision Making
	Oct. 8–9	Fall Break
8	Mon. Oct. 12	Midterm Examination
	Wed. Oct. 14	Delay Analysis I – Types of Delays and Delay Responsibility
9	Mon. Oct. 19	Delay Analysis II – Critical, Excusable, Non-Excusable and Concurrent Delays
	Wed. Oct. 21	Delay Analysis III – Delay Impact on Project Completion
10	Mon. Oct. 26	Schedule Compression I – Crashing Fundamentals
	Wed. Oct. 28	Schedule Compression II – Crashing Optimization
11	Mon. Nov. 2	Schedule Fast Tracking
	Wed. Nov. 4	Schedule Recovery Planning
12	Mon. Nov. 9	Forecasting Project Completion Time and Cost
	Wed. Nov. 11	Integrated Project Controls I
13	Mon. Nov. 16	Integrated Project Controls II
	Wed. Nov. 18	Final Review I
14	Mon. Nov. 23	Final Review II
	Wed. Nov. 25	Thanksgiving Holiday – No Class
15	Week of Nov. 30	Student Questions and Course Discussion
16	Week of Dec. 7	Final Examination

Refer to the University Master Calendar for additional important dates.

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