CSM 4364: Construction Project Management and Scheduling
Course Syllabus – Fall 2026

Instructor Information

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Class Times and Place

Classroom: RFM 04236

Class/Lab Times: Monday
5:00 pm to 7:50 pm

Office Hours: by appointment via zoom

Final Exam Date & Time

Monday December 1th - 4:30 to 7:30 pm

Catalog Description

(2-2) This course explores construction management concepts and their application in project execution. Students investigate contract documentation and assess techniques for managing resources such as labor, equipment, materials, and finances. The course introduces scheduling methodologies, including Gantt Charts and PERT/CPM, and incorporates the use of modern software for project planning. Analytical exercises reinforce theoretical principles, enabling students to evaluate strategies for meeting schedule and cost objectives in construction projects.
Prerequisite: Pre-Construction or Instructor's Approval.

Course Outcomes

At the end of the course, the student will be able to:

1. Create bar charts and CPM schedules for a specified project, using industry-standard software and meeting accuracy criteria.
   - **Program Outcome 2 - Construction Knowledge and Application** - Apply construction fundamentals, building systems, and processes to design, plan, and execute projects effectively using critical thinking and problem-solving skills.
   - **Student Learning Outcome (SLO) 5** – Create construction project schedules.
   - **Evaluation Method 1**: Will be calculated by averaging individual scores on Homework and Lab Exercises which deal with creating bar charts and CPM scheduling.

2. Analyze the role of schedules in project control by evaluating float calculations and resource allocation.
   - **PO 4 - Project and Risk Management** - Develop and implement project management and risk control strategies through analytical reasoning and problem-solving to deliver projects within defined scope, time, and cost constraints.
   - **SLO 13** - Understand construction project control processes.
   - **Evaluation Method** - Will be calculated by averaging individual scores on Exam 2 and In-class exercises which deal with understanding the different types of floats to manage the schedule effectively.

3. Apply leadership and teamwork principles in a collaborative scheduling project, contributing to a deliverable.
   - **PO 3 - Professional, Ethical, and Leadership Practice** - Demonstrate leadership, teamwork, and ethical judgment while integrating sustainability, professionalism, and critical decision-making in construction practice.
   - **Evaluation Method** - Will be calculated by averaging individual scores on Exam 1, which deals with leadership, management, and teamwork skills.

4. Apply Microsoft Project and Primavera tools to develop and update a construction schedule for a given project, ensuring compliance with project constraints.

- **Program Outcome 5 - Technology, Innovation, and Problem Solving** - Use modern tools, software, and emerging technologies to identify, analyze, and solve construction-related problems creatively and efficiently.
- **SLO 5** – Create construction project schedules.
- **Evaluation Method** - Will be calculated by averaging individual scores on Primavera Lab Exercises and the Final Class Project.

5. Compose a written scheduling report summarizing timeline, milestones, and resource allocations, meeting clarity and formatting standards.
   - **Program Outcome 1 - Communication and Business Practice** - Communicate effectively with diverse stakeholders and business fundamentals to ensure compliant, high-quality construction operations.
   - **SLO 1** - Create written communications appropriate to the construction discipline.
   - **Evaluation Method** – Final Project

Required Materials

Textbook

- Jay S. Newitt (2009). Construction Scheduling: Principles and Practices. 2nd edition, P earson Prentice Hall.
- Summary notes will be uploaded to Canvas prior to the lectures.

Time Commitment

Students should be prepared to spend 2-3 hours per week outside of class on assignments that will include: reading assignments, lab assignments, and studying for tests.

Attendance:

Class attendance is expected and required. Attendance recorded in Canvas using a check-in code at the beginning of every class. Excused absences and virtual attendance via ZOOM will be allowed on a case-by-case basis in response to written (email) notification of reason for the absence prior to class time. Excused absences include illness, family emergency, and others deemed appropriate by the instructor. It will be the student's responsibility to obtain the missed assignments due to any absences and to complete those assignments for grading. Attendance percentage grade will be updated monthly and will count for 10% of the final grades in the class.

Evaluation:

The assignments in this course will carry the following weighting:

Attendance	75
Lab Exercise	50
Home Work	120
Exams	300
Total Points	545

At a minimum, the following scale will be used to convert numerical averages to letter grades:

A ≥ 90 90 > B ≥ 80 80 > C ≥ 70 70 > D ≥ 60 60 > F

Construction Major Code of Classroom Conduct

- Maintain integrity on all assignments and tests
- Attend all scheduled classes
- Be on time to class
- Inform instructor in writing (email) if you need to leave class early or will miss class
- Participate in classroom activities

Accommodation Statement

- Students with a documented disability should contact the instructor as soon as possible, to address proper accommodation needs.

Construction Student Association (CSA)

It is valuable for the CSM Students to join the Construction Student Association (CSA). This organization holds regular meetings and sponsors other activities of interest to construction majors. When joining CSA,

the student can also choose to become a member in the Associated Builders and Contractors (ABC), Associated General Contractors (AGC) and/or the National Association of Home Builders (NAHB). All CSM members are welcome to attend appropriate ACI activities.

Texas State University Mission and Shared Values

Mission

Texas State University is a doctoral-granting, student-centered institution dedicated to excellence and innovation in teaching, research, including creative expression, and service. The university strives to create new knowledge, to embrace a diversity of people and ideas, to foster cultural and economic development, and to prepare its graduates to participate fully and freely as citizens of Texas, the nation, and the world.

Shared Values

In pursuing our mission, we, the faculty, staff, and students of Texas State University, are guided by a shared collection of values:

- Teaching and learning based on research, student involvement, and the free exchange of ideas in a supportive environment.
- Research and creative activities that encompass the full range of academic discipline research with relevance, from the sciences to the arts, from theoretical to the applied.
- The cultivation of character, integrity, honesty, civility, compassion, fairness, respect, and ethical behavior in all members of our university community.
- A diversity of people and ideas, a spirit of inclusiveness, a global perspective, and a sense of community as essential conditions for campus life.
- A commitment to service and leadership for the public good.
- Responsible stewardship of our resources and environment; and
- Continued reflection and evaluation to ensure that our strengths as a community always benefit those we serve.

AI use prohibited:

For this class, "AI" has a broad definition and refers to any program or browser extension that can edit your writing or create new content, including text, images, and code. The use of AI or Generative AI tools, including those provided by Texas State University, such as Co-Pilot, Grammarly, ChatGPT, or similar programs, is strictly prohibited for all assignments. Relying on AI undermines certain learning objectives of this course and could be considered academic dishonesty. This includes using AI for brainstorming, proofreading, changing the tone and style, editing, summarizing, or drafting any part of your work.

Violations will be treated as any other violation of the Honor Code as listed in this syllabus and will be reported to the Honor Code Council. If you are unsure whether a tool is permitted, assume it is not, and consult with me first. You are responsible for your own original work and academic integrity. For writing assistance, please visit the University Writing Center.

CSCM 4364 - Construction Project Management & Scheduling

Fall 2026 Tuesday

Tentative Source

Schedule ZOOM ID

Updated

Week	Day	Date	Subject	In Class Assignment	P6 Homework		PO.SLO Content
1	Tue	8/25	Intro/Syllabus/Overview of Project Management Basics	Lecture 1.1	P6 Log In/Project Creation	P6 Formatting and WBS Codes	5, 12
2	Tue	9/1	Organizing Construction Projects/Creating Project Activities and Millstones	Lecture 2.1	Create Project Areas	Activities and Milestones for Demolition WBS	5, 16
3	Tue	9/8	Bar Charts, CPM Scheduling, and LPS	Lecture 3.1	Touch Plan and P6 Overview	Activities and Milestones for Sitework WBS	5,12,16,
4	Tue	9/15	Creating Network Logic Diagram	Lecture 4.1	LPS Simulation	Study for Exam and Activities and Milestones for Sitework WBS Foundation/Structure	5,12,16,
5	Tue	9/22	Exam 1	Exam 1		Activities and Milestones for Envelope & MEP WBS	5,12,16,
6	Tue	9/29	Durations/Calculating ES, EF, LS, LF, TF	Lecture 6.1	Manual Calc of Durations, ES, EF, LS, LF, TF	Activities and Milestones for Finishes WBS	5, 16
7	Tue	10/6	Types of Float	Lecture 7.1	Reviewing and Analyzing Schedule	P6 Activities and Milestones	12, 16
8	Tue	10/13	Activity Relationships and Using Lag	Lecture 8.1	Changing Relationship Types and Using Lag P6	Changing Relationship Types and Using Lag P6	5,16
9	Tue	10/20	Reviewing and Analyzing the Schedule		Reviewing and Analyzing Schedule	P6 Assigning Base Line	5, 16
10	Tue	10/27	Exam 2				5, 17
11	Tue	11/3	Updating the Schedule/Using the Schedule to Forecast and Balance Resources		Reviewing and Analyzing Schedule	Updating Schedule	5, 14, 16
12	Tue	11/10	P6		Reviewing and Analyzing Schedule	Adding Resources, Updating Schedule, Setting Secondary Baseline.	14/16
13	Tue	11/17	P6		Reviewing and Analyzing Schedule	Tracking Delays, Running Reports,	14/17
14	Tue	11/24	Final p6 Project		Free Time in Lab	Final Project	
15	Tue	12/1	Final Exam - Final Project Due			Final Project	14, 16