

**Construction Management Department  
California State University, Chico**

**CMGT 457 – Project Controls and Scheduling  
Course Syllabus**

**A. Prerequisites**

CMGT 450 – Construction Estimating

**B. Meeting Time & Location**

CMGT 457-03	Class #3080	M/W	1:00 PM – 2:50 PM	OCNL, Room 337
CMGT 457-01	Class #3060	M/W	3:00 PM – 4:50 PM	OCNL, Room 337

**C. Instructor**

Brian Old	bold@csuchico.edu
Office Hours:	Mon, Tues, Wed, & Thurs 10:30pm-11:30pm <b>&amp; By Apt.</b>
Office Location:	O’Connell Technology Center, Room 326
Cell Phone:	530-332-8083

**D. Catalog Description:**

This class includes critical path method techniques, planning, logic, scheduling and updating, diagramming, analysis, and the use of computer for scheduling.

**E. Course Learning Outcomes (CLO):**

*Upon successful completion of this course, the student will:*

1. Create a construction project schedule which meets project milestone dates using the critical path method **[SLO #5]**.
2. Separate, diagram, and sequence unique scopes of work which are detailed in a project’s construction documents **[SLO #7]**.
3. Use software to track construction progress, forecast when future activities need to occur, and create documents commonly used in construction management. **[SLO #10]**.
4. Create schedule narratives which explain a project’s risks and how those risks are addressed in a project schedule. **[SLO #13]**.
5. Explain how a construction project manager controls the timeline of a project when experiencing schedule delays **[SLO #16]**.

**Student Learning Outcomes (SLO):**

The American Council for Construction Education (ACCE) prescribes 20 Student Learning Outcomes (SLO) as Educational Objectives for an undergraduate degree program in Construction Management. For a list of these 20 SLOs visit the Chico State Department of Construction Managements website [www.csuchico.edu/cm](http://www.csuchico.edu/cm) and the SLO link under ACCE Accreditation drop down menu.

The following SLOs are supported by this course in the form of I=Introduction, R=Reinforced, or DA-Direct Assessment:

- SLO 5 – Create construction project schedules (DA).
- SLO 7 - Analyze construction documents for planning and management of construction processes (DA).
- SLO 10 - Apply electronic-based technology to manage the construction process (DA).
- SLO 13 – Understand construction risk management (R)
- SLO 16 – Understand construction project control processes (R)

**ACCE Assessment Mapping:**

<u>SLO</u>	<u>CLO</u>	<u>Assessment Type</u>	<u>Week</u>	<u>Target</u>
7	2	Lab 1 – Create Project WBS	2	85% / 73%
7	2	Lab 4 – Create Logic Diagram	6	85% / 73%
5	1	Lab 2 – Create Project Activity List	4	85% / 73%
5	1	Lab 3 - Calculate Activity Durations	5	85% / 73%
5	1	Lab 5 – Input Activity List and Costs in P6	9	85% / 73%
5	1	Lab 6 – Determine and Load Project Resources	11	85% / 73%
5	1	Lab 7 – Create Baseline Schedule	12	85% / 73%
10	3	Lab 8 – Perform Schedule Update in P6	14	85% / 73%

**F. Course Resource Materials Requirements:**

**Textbook:** There is no required textbook for this class. Reading material will be presented for the student, as required, via Bbl.

**Course Pack:** *No course pack is necessary*

**Laptop Computer:** A computer will be required for assigned activity work. There are no university provided computers in classroom. Macs do not work as well as PCs for the software used. Use of a Mac is not advised, and the instructor may not be able to assist with issues associated with Mac incompatibilities.

**Advisory Note!**

***Primavera P6 does not always work on Mac based computer operating systems. You will be responsible to have a PC based laptop or install a windows operating system on your Mac computer.***

**G. Course Requirements:**

**Conduct**

I believe that students are adults and you will be treated and respected as such. Simply put, this means that you will be held accountable for your actions, decisions, and the consequences. I expect each of you to conduct yourself in a professional and mature manner, showing courtesy and respect for fellow students and the instructor. Please review the Universities Disruptive Behavior policy under section M of this document.

**Advisory Note!**

- **During class time any disruptive or annoying behavior, outbursts, unbecoming language, or personal visiting during discussion time will result in you being asked to leave and forfeit that day’s participation points.**
- **Your personal agenda must be set aside during class time for the greater good of all your classmates.**

### **Honesty in the Classroom**

You are expected to be familiar with the University's policy on academic integrity. As such, there will be no tolerance for dishonesty, sharing of work, and especially copied work. Ethical standards as established by the university will be strictly upheld (see THE UNIVERSITY CATALOG).

### **Tobacco Products**

The use of any type of tobacco product (smokeless, chewable or otherwise) is not permitted in any building at California State University, Chico. If you chew tobacco products, please refrain during class time.

### **Electronic Devices**

The use of pagers, phones, MP3 players and other electronic devices (excluding laptops) is not permitted in class. If you must take a call (work or emergency), please EXIT the classroom before answering the call.

### **Withdrawal from Class**

Please refer to the Academic Calendar Deadlines as published in the University Catalog.

### **Professional Work**

As a student looking towards gaining an internship within the construction industry, [\*it is expected that your completed work will be professional in presentation.\*](#) Consider this course as practice in presenting professional quality industry work to your future employer.

## **H. Instructional Methods:**

This course is designed around the following methods of presenting material to the student:

1. Class discussions and assignments reinforced by quizzes.
2. Activities to be started in class and turned-in in class (sometimes finished outside of class time as necessary), which are designed to reinforce the students learning process of Scheduling.
3. Lab Assignments, Quizzes and Exams to expand the student's knowledge in the subject matter.

## **I. Assignments:**

Out of class work will be assigned on a regular basis. [\*Completed assignments will be collected at the beginning of class;\*](#) please bring your work pre-printed to class for submission. Assignments turned in at my office or inbox will not be accepted.

### **Advisory Note!**

**There will be NO class time available for printing assignments that are due at the beginning of class. Assignments will be collected at the start of class. Assignments are due at the beginning of class or on blackboard on the due date posted. Late work will not be accepted, unless an accommodation has been made by the instructor in writing (email) prior to the original due date. Assignments emailed to the instructor, left at the instructor's office, or dropped into the instructor's inbox will not be accepted.**

## Readings

Readings are noted in the course calendar. You are encouraged to have the required reading completed prior to class, as this will facilitate your comprehension of discussion materials.

## Activities

There will be weekly activities assigned to reinforce your understanding of the current classroom discussion material. These activities are intended to build your skills in reading building plans and specification, by discipline, and continue your development in using common industry software.

## Group Work

You are encouraged to study and work in groups, however all submitted work must be your own original work.

### Advisory Note!

**Even if you worked on an assignment with peers you must submit your own original work for grading. Original work is preparing your own unique worksheets, writeups, schedules, printouts, etc. (Anything you turn in must be your own). If students submit work that is similar or identical to work available online or provided by other students, they may be subject discipline by the Department or the University.**

## Course Work Binder

Keeping your work organized is a requirement for successful completion of the course and success in your professional career. There will be no requirement to turn in a notebook. I do recommend you keep a file or binder of your coursework in order to retain study material in an organized manner.

## J. Assessments:

Assessments are the basis of determining your ability to create, analyze, apply, and understand the Course Learning Outcomes (CLO) and Student Learning Outcomes (SLO) provided by ACCE. Instructional target goals have been established (as noted above) and the results of the assessment in these areas will be used to determine the success of the student and instructor for this course.

## Quizzes

Quizzes will be given based upon the class discussion, assigned readings, and material presented. Quizzes may be unannounced. **Make-up quizzes must be scheduled in advance.**

## Exams

There will be two exams, one midterm exam and a final exam. *If a student is unable to take an exam due to an emergency, illness, or is entitled to special dispensation **the instructor must be notified in advance.** Non-excused absences will yield a score of zero. Failure to turn in the exam with your answer sheet will yield a score of zero.* No makeup exams will be given, except for a serious and compelling reason as outlined by the University Catalog.

## Participation, Attitude, and Attendance

A portion of your course grade will be based on participation, attitude and attendance.

### Advisory Note!

- Attendance/Participation is documented at the END of each class, this is a major consideration in determining your participation points.
- The instructor reserves the right to increase a student's final grade for high quality participation in discussions, activities and labs.
- It's your responsibly to "sign out" at the end of each class period. Please remind me if the roll sheet has not been distributed by the end class.

## **K. Grading/Evaluation:**

All point totals shown are approximate and subject to revision during the semester.

<b>Evaluation Criteria</b>	<b>Points</b>	<b>% of Final Grade</b>	<b>Weighting</b>
<u>Activities, Quizzes, Participation</u>			25%
9 Activities	20 pts each	13.6%	
5 Quizzes	20 pts each	7.57%	
Participation	50 points	3.78%	
<u>Exams</u>			30%
Midterm Exam	100 points	15.00%	
Final Exam	100 points	15.00%	
<u>Labs</u>			45%
8 Labs	30 pts each	45.00%	

Grades are generally assigned by the following distribution, although the professor reserves the right to modify the distribution.

A	=	94 -100% (Exceptional)	C+	=	77 – 79% (Above Average)
A-	=	90 – 93% (Excellent)	C	=	70 – 76% (Average)
B+	=	87 – 89% (Very Good)	D	=	60 – 69% (Inadequate)
B	=	83 – 86% (Good)	F	=	< 60% (Failing)
B-	=	80 – 82% (Adequate)			

## **L. Topical Outline**

Refer to the course calendar posted on Blackboard Learn.

## **M. University Policies and Campus Resources**

### **Disruptive Behavior**

Students are required to adhere to the behavior standards articulated in the Campus Policies and Code of Student Conduct, and to refrain from disrupting classes and other academic settings. "Disruptive behavior" means conduct that materially and substantially interferes with or obstructs the teaching or learning process in the context of a classroom or educational setting. Disruptive behavior includes conduct that distracts or intimidates others in a manner that interferes with instructional activities, fails to adhere to an instructor's appropriate classroom rules or instructions, or interferes with the normal operations of the University. Disruption in the classroom may include:

- Persistent speaking without permission.
- Side conversations.
- Excessive talking.
- Engaging in activities not related to the class, or other overt inattentiveness including but not limited to sleeping, talking to others, doing work for another class, checking e-mail, and exploring the Internet.
- Ringing cell phones or using a cell phone.
- Using mobile devices or laptop computers in the classroom for non-course related purposes.
- Eating/drinking in class without permission.
- Monopolizing class discussion and refusing to defer to instructor, or listen to others; persisting when the instructor has indicated that the student's remarks are off topic and it is time to move on.
- Chronically entering late/leaving early, moving about the classroom when not appropriate for the classroom activity.
- Filming, photographing, or taping the class without the instructor's prior permission.
- Disputing authority or arguing with faculty and other students.
- Yelling, arguing, swearing, bullying, or other harassing or intimidating behavior.
- Inappropriate, disrespectful, or uncivil responses to the comments, opinions, presentations, etc. of others in the classroom.
- Physically or verbally abusive conduct.
- Failure to adhere to the instructor's rules or instructions.
- Vulgar or obscene language, slurs or other forms of intimidation.
- Threats of any kind.
- Improper use of equipment, materials or resources.
- Destruction of property.
- Coming to class under the influence of alcohol or another controlled substance.
- Bringing individuals to class who are not enrolled, including infants/children.
- Any behavior that puts the health or safety of the instructor or other students in the classroom in jeopardy.

### **Academic integrity**

Students are expected to be familiar with the University's Academic Integrity Policy and the University's policy on academic honesty. I take this issue very seriously, and will not tolerate any form of dishonesty such as plagiarism or cheating. Your own commitment to learning, as evidenced by your enrollment at California State University, Chico, and the University's Academic Integrity Policy requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the Office of [Student Judicial Affairs](#). The policy on [academic integrity](#) and other resources related to student conduct can be found at the Student Judicial Affairs website.

### **Campus Policy in Compliance with the American Disabilities Act**

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. The policy for Disability access and Compliance are found [here](#).

Special accommodations for exams require ample notice to the testing office and must be submitted to the instructor well in advance of the exam date.

### **Disability Services**

Any student who feels s/he may need an accommodation based on the impact of a disability should contact me privately to discuss your specific needs. Students with disabilities requesting accommodations must register with the [ARC Office](#) (Accessibility Resource Center) to establish a record of their disability.

### **Student Learning Center**

The mission of the [Student Learning Center](#) (SLC) is to provide services that will assist CSU, Chico students to become independent learners. The SLC prepares and supports students in their college course work by offering a variety of programs and resources to meet student needs. The SLC facilitates the academic transition and retention of students from high schools and community colleges by providing study strategy information, content subject tutoring, and supplemental instruction. The University Writing Center has been combined with the Student Learning Center.

### **N. Other:**

#### **[Title IX: Confidentiality and Mandatory Reporting](#)**

As an instructor, one of my responsibilities is to help create a safe learning environment on our campus. I also have a mandatory reporting responsibility related to my role as an instructor. It is my goal that you feel able to share information related to your life experiences in classroom discussions, in your written work, and in our one-on-one meetings. I will seek to keep information you share private to the greatest extent possible. **However, I am required to share information regarding sexual misconduct with the University.** Students may speak to someone confidentially by contacting the [Counseling and Wellness Center](#) or [Safe Place](#).