

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

**CMGT 385 – Concepts of Sustainable Construction**

**Course Syllabus**

**Fall 2020**

**A. Prerequisites:**

CMGT 235 (Grade  $\geq$ C)

**B. Meeting Time & Location:**

CMGT 385-01      Class #5504                      T/R              2:00PM – 3:15PM                      O’Connell, Room 127

**C. Instructor:**

Marie Patterson: [mepatterson@csuchico.edu](mailto:mepatterson@csuchico.edu)  
Office Hours:              TBD  
Office Location:              O’Connell Technology Center, Room 331  
Office Phone:              530-898-6309

**D. Catalog Description:**

This course evaluates green building techniques, sustainable practices, and Lean Construction throughout the entire project life cycle. Students are introduced to the various requirements for green building rating systems and certifications. Content is provided to assist students in their self-study to take the LEED Green Associate exam.

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

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

1. Understand the social, environmental and economic impacts of the built environment and how green building techniques can reduce these impacts.
2. Identify the driving factors behind Lean Construction and Lean Construction practices implemented on projects.
3. Analyze sustainable construction practices, specifically as they relate to design decisions and construction practices (Direct Assessment: ACCE-SLO #18).
4. Understand the benefits of Green Building rating systems and be familiar with the USGBC LEED assessment system.
5. Understand the importance of quality assurance and quality control as it relates to sustainable buildings and the commissioning, measurement and verification of rating systems. (Reinforce: ACCE-SLO #15).
6. Understand the importance of mechanical, electrical and plumbing systems in green building (Direct Assessment: ACCE-SLO #19).

**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=Reinforce, or DA-Direct Assessment:

- SLO 15 – Understand construction quality assurance and control (R).
- SLO 18 – Understand the basic principles of sustainable construction (DA).
- SLO 20 – Understand the basic principles of mechanical, electrical and plumbing systems (DA)

**ACCE Direct Assessment Mapping:**

<u>SLO</u>	<u>CLO</u>	<u>Assessment Type</u>	<u>Week</u>	<u>Target</u>
18	4	Exam II	13	85% / 73%
20	6	Exam I	6	85% / 73%

**F. Course Resource Materials Requirements:**

**Textbook:**

***Sustainable Construction – Green Building Design & Delivery: Kibert, 4<sup>th</sup> Edition***

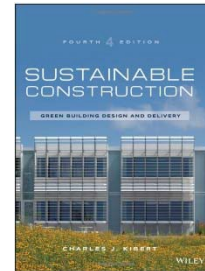
ISBN: 978-1119055174

Publishers Website: [www.wiley.com](http://www.wiley.com)

Amazon.com, or your other favorite on-line bookstore.

**Laptop Computer:** A computer will be required for assigned activity work.

There are no university provided computers in classroom.



**Advisory Note!**

- ***You will be responsible to have a PC based laptop or install a windows operating system on your Mac computer (dual boot environment only!).***

**G. Course Requirements:**

**Conduct**

The faculty 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, 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 assigned readings.
2. Activities and assignments to be started in class (finished outside of class time as necessary), which are designed to reinforce the students learning process.
3. Quizzes to expand the student's construction vocabulary, comprehension of discussion material, and assigned readings.

## **I. Assignments:**

Out of class work may 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, or upload onto Blackboard in the required assignment.

All assignments are expected to be organized and legible. Sloppy work will be rejected and graded as zero. Homework assignment requirements will be clearly defined prior to issuance of the first assignment. Assignments will typically be posted on Blackboard Learn.

Extra Credit may be given for assignments at the discretion of the instructor.

### **Advisory Note!**

- **Assignments will be collected at the beginning of class.**
- **All other submission are late and will not be accepted for credit, unless prior arrangements have been made.**

### **Readings/Online Course Resources**

Readings and Online Course Resources may be available on Blackboard Learn. You are encouraged to familiarize yourself with the appropriate materials prior to class, as this will facilitate your comprehension of course materials and assignments.

### **Activities**

There will be weekly activities assigned to reinforce your understanding of the current classroom course material. These activities are intended to build your skills and continue your development in using common industry software.

### **Group Work**

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

## **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, presentations, workshops, assigned readings, assignments, online course materials, and construction terms presented. A quiz may be given during any discussion or lab session. Quizzes will be given on Bb Learn. Quizzes will be timed. Quizzes are to be completed individually, i.e. they are not a team assignment. Do not solicit or give help to anyone taking a quiz.

#### **Advisory Note!**

- **There will be NO make-up quizzes, unless prior arrangements have been made.**
- **If you forget to take the quiz, do not come to me after the fact. It is your responsibility to remember that a quiz is due.**

### **Exams**

There will be two mid-term exams and one final comprehensive exam. The final exam will have overall coursework objectives comprehensive questions. If a student is unable to take an exam due to an emergency or illness, or is entitled to special dispensation, the instructor should 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.**

- **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 course of the semester.

<b>Evaluation Criteria</b>	<b>Points</b>	<b>% of Final Grade</b>	
<u>Attendance and Participation</u>			34%
Attendance	90 points	8%	
Participation	75 points	7%	
10 Quizzes	20 pts/each	19%	
<u>Exams &amp; Quizzes</u>			28%
Exam 1/2	100 pts/each	18%	
Final Exam	100 points	9%	
<u>Assignments and Presentations</u>			38%
10 Assignments	40 pts/each	38%	

Grades are generally assigned by the following distribution, although the professor reserves the right to modify the distribution, as appropriate:

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 work 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.
- 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.

- 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.

If a student is thought to be cheating and charges are brought, a process is set in motion which can result in severe consequences, ranging from failure in an individual course to long-term suspension from the University and denial of a degree. The examples below do not include all possible violations of the University's expectations, but they do give a good idea of behavior which will result in grade reduction, disciplinary probation, suspension, or expulsion from the University.

**Plagiarism:** Copying homework answers from your text to hand in for a grade; failing to give credit for ideas, statement of facts, or conclusions derived from another source; submitting a paper downloaded from the Internet or submitting a friend's paper as your own; claiming credit for artistic work (such as a music composition, photo, painting, drawing, sculpture, or design) done by someone else.

**Taking Information:** Copying graded homework assignments from another student; working together on a take-home test or homework when not specifically permitted to do so by the instructor; looking at another student's paper during an examination; looking at your text or notes during an examination when not specifically permitted to do so by the instructor.

**Providing Information:** Giving your work to another to be copied; giving answers to another student during an examination; after taking an exam, informing another student in a later section of questions which appear on that exam; providing a term paper to another student.

**Misrepresentation:** Having another student take your exam, or do your computer program or lab experiment; lying to an instructor to increase your grade; submitting a paper that is substantially the same for credit in two different courses without prior approval of both instructors involved; altering a graded work after it has been returned and then submitting the work for re-grading.

### **Accessibility Resource Center (ARC) and Campus Policy in Compliance with the American Disabilities Act**

Any student who feels they may need an adaptation or accommodation based on the impact of a disability should contact me privately to discuss your specific needs. Students with disabilities requesting accommodations, or if you need to make special arrangements in case the building must be evacuated, must register with the [ARC Office](#) (Accessibility Resource Center) to establish a record of their disability. 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.

### **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](#) (898-6345) or [Safe Place](#) (898-3030).

The instructor reserves the right to modify the contents of this syllabus at any time during the semester at the instructor's discretion.