



California State University East Bay  
College of Science  
Department of Engineering  
Construction Management Program  
Course Syllabus  
Codes and Commissioning  
CMGT 345

**Instructor:** Dr. Fadi Castronovo  
**Office Phone:** (510) 885-2948  
**Email:** [fadi.castronovo@csueastbay.edu](mailto:fadi.castronovo@csueastbay.edu)  
**Office Hours:** Tuesday & Thursday 11:00 AM - 12:00 PM, Other Times by Appointment  
**Office Room:** Student and Faculty Support 531  
**Course Number:** CMGT 345  
**Class Hours:** Tuesday & Thursday 4:15 PM - 5:30 PM  
**Credit Hours:** 3 Units  
**Location:** North Science 321

**REQUIRED BOOK**

**Building Codes Illustrated: A Guide to Understanding the 2015 International Building Code 5<sup>th</sup> Edition**  
Edited by: Francis D.K. Ching & Steven R. Winkel, FAIA, PE. Publisher: John Wiley & Sons, Inc. ISBN: 978-1119150923

**COURSE DESCRIPTION**

Building Codes for structural, mechanical, electrical, and plumbing. Building safety and accessibility. Energy efficiency (Title 24) and commissioning. Prerequisite: CMGT 207. **A-F grading only.**

**Learning Outcomes:**

Course Learning Outcome	ACCE Student Learning Outcome
1 Understand different types of occupancies and buildings	O7 - Understand construction quality assurance and control.  O17 - Understand the legal implications of contract, common, and regulatory law to manage a construction project.
2 Identify the most relevant elements of fire safety, means of egress and accessibility, and energy efficiency provisions established by the code.	
3 Understand the permitting process and effectively interact with building officers.	
4 Effectively identify code non-compliances and propose code approved solutions.	
5 Understand the concepts of commissioning, it's process, and the verification and testing process.	

**COURSE FORMAT**

**Communication:** The instructor will communicate with class via Blackboard Email (and the student's campus email account through MYCSUEB) Students are responsible to insure that: (1) their email address is current; (2) they check their account at least daily; and (3) they log into blackboard on a regular basis.

**Class Attendance:** Attendance is required for all students. Any absence for part or all of a class will negatively affect the student's participation grade. Also, arriving late to class and leaving early is disruptive to other students and to the instructor. Please plan your schedule well in advance, so that unnecessary disruptions may be avoided.

**Late Work / Extensions / Incompletes:** Late assignment(s) that is turned in or posted after the initial due date will receive a 10% in deduction of the points possible for each day being later. Therefore, after the second day of lateness, the assignment(s) will receive a "zero" as the grade. There is no make-up once the weekly assignment has past or ended. Contact me if you have any concern or questions with the late assignment policy. Quizzes are due at the end as shown in the schedule. No make-up, late submission, or re-take are allowed.

Quizzes that are not submitted on time will receive a "zero" as the grade. Contact me if you have any concern or questions with quiz submission policy.

### GRADING POLICY/CRITERIA

Your grade will be based upon the following:

In-Class Notes and Activities:	11%
In-Class Presentations:	10%
Quizzes:	9%
Assignments:	15%
Semester Project Presentation:	10%
Semester Project Report:	15%
Exam 1:	10%
Exam 2:	10%
Exam 3:	10%
TOTAL	100%

Grades range from A to F, this course cannot be registered as Credit. A  $\geq$  94 A- (90-93) B+ (86-89) B (83-85) B- (80-82) C+ (76-79) C (73-75) C- (70-72) D+ (66-69) D (63-65) D- (60-62) F < 60

### ASSIGNMENTS AND PROJECT

- All assignments, activities, presentations, and projects **must be submitted on Blackboard** unless otherwise stated by the instructor.
- Assignments will have different formats such as a short report, field studies or exercises. All written assignments **must be typed** unless otherwise stated by the instructor. All work will be graded based on the correctness of answers, writing quality, and neatness and organization.
- Homework assignments are due one week after they are handed out. Late assignments are penalized 10% for each day late.
- In class written assignments are due at the end of the week, unless otherwise stated by the instructor.
- One group project and chapter presentations will be completed during the semester. This project will be focused on applying the concepts learned in the class to create training and multimedia materials that can be used by the public to understand building codes, and the permitting process. In addition to the class material, students will research electrical and plumbing code requirements associated to their project.

**CLASS SCHEDULE IS SUBJECT TO CHANGE**

WEEK	CLASS	WEEK DAY	TOPIC	READING	ONLINE QUIZ	ASSIGNMENTS	PRESENTATIONS
1	1	Tue	20-Aug	Introduction	-	-	-
	2	Thurs	22-Aug	Navigating Codes Part 1	-	-	-
2	3	Tue	27-Aug	Navigating Codes Part 2	CHAP. 1	-	-
	4	Thurs	29-Aug	Use and Occupancy	CHAP. 2	QUIZ 1	-
3	5	Tue	3-Sep	Building Height and Areas	CHAP. 3	-	-
	6	Thurs	5-Sep	Types of Construction	CHAP. 5	QUIZ 2	PDF OF ASSIGNMENT 1
4	7	Tue	10-Sep	Fire Resistant Construction Part 1	CHAP. 6	-	-
	8	Thurs	12-Sep	<b>Guest Lecture</b>	-	QUIZ 3	-
5	9	Tue	17-Sep	Fire Resistant Construction Part 2	CHAP. 7	-	-
	10	Thurs	19-Sep	Exam Review	-	-	-
6	11	Tue	24-Sep	<b>EXAM 1</b>	-	-	-
	12	Thurs	26-Sep	Interior Finishes	-	-	-
7	13	Tue	1-Oct	Fire-Protection Systems	CHAP. 8	-	-
	14	Thurs	3-Oct	Means of Egress	CHAP. 9	QUIZ 4	-
8	15	Tue	8-Oct	Accessibility	CHAP. 10	-	-
	16	Thurs	10-Oct	Energy Efficiency Part 1	CHAP. 11	QUIZ 5	-
9	17	Tue	15-Oct	Energy Efficiency Part 2	Title 24	-	-
	18	Thurs	17-Oct	Special Inspections	Title 24	QUIZ 6	PDF OF ASSIGNMENT 2
10	19	Tue	22-Oct	Exterior Walls	CHAP. 17	-	-
	20	Thurs	24-Oct	Exam Review	CHAP. 14	-	-
11	21	Tue	29-Oct	<b>EXAM 2</b>	-	-	-
	22	Thurs	31-Oct	Intro to Commissioning	-	-	-
12	23	Tue	5-Nov	Commissioning Process	Commissioning Reading 1	QUIZ 7	-
	24	Thurs	7-Nov	Virtual Reality Applications	VR Article	-	-
13	25	Tue	12-Nov	VR Activity / Drawing Activity I	Commissioning Reading 2	QUIZ 8	-
	26	Thurs	14-Nov	VR Activity / Drawing Activity II	-	-	-
14	27	Tue	19-Nov	Exam Review	-	QUIZ 9	PDF OF ASSIGNMENT 3
	28	Thurs	21-Nov	<b>NO CLASS</b>	-	-	-
15	29	Tue	26-Nov	<b>NO CLASS</b>	-	-	-
	30	Thurs	27-Nov	<b>NO CLASS</b>	-	-	-
16	31	Tue	3-Dec	<b>PRESENTATIONS</b>	-	-	PDF OF GROUP PRESENTATION
	32	Thurs	5-Dec	<b>PRESENTATIONS</b>	-	-	-
17	33	Tue	10-Dec	NO CLASS	-	-	-
	34	Thurs	12-Dec	<b>EXAM 3 AT 5:30 PM - 7:30 PM</b>	-	-	PDF OF PROJECT

## STUDENT/FACULTY RESPONSIBILITIES

Your responsibilities in this course requires you to attend class, complete lectures, readings, assignments, quizzes, and the project. It is extremely important that you to log on DAILY to check on the assignments and posts.

Withdrawals: Students who wish to withdraw from the course due to unsatisfactory progress or for any other reason must do so through the admission and records office. It is your responsibility to officially withdraw yourself from the course. Refer to university's "Withdrawal Policy" for deadline to receive a "W". Once the deadline for withdrawal has passed, student will receive a letter grade base the coursework completed. No "Incomplete" can be assigned for any reason. Refer the university's "Grading Policy" for more information. Withdrawal Policy link: <http://www20.csueastbay.edu/students/student-services/student-records/withdrawals.html>

## OTHER COURSE POLICIES:

Quiz/Test Makeups: There will be **NO** makeup quizzes or tests for unexcused absences.

Civility Guidelines: California State University, East Bay is committed to establishing and maintaining a safe, courteous environment for the teaching and learning process. Classroom discussions sometimes involve controversial, value-laden issues that may generate great debate and strong opinions. This is to be expected. Our task is to learn to accept our differences so that we can develop mature relationships both in and out of the classroom. This involves rising above personality conflicts and stereotypes, and learning from our differences. Please be aware that intolerant, uncivil, sarcastic, or disruptive behavior will not be tolerated.

Please read the outline of my expectations for your participation in the class below.

All your responses must be done in an academic appropriate manner according to the Student Standards of Conduct. <http://www.csueastbay.edu/ecat/current/a-040apndx.html> and that all use and communication is subject to the CSUEB Appropriate Use Computing Policies. Any use of inappropriate language will be reported as Student Misconduct. Be RESPECTFUL and DO NOT use language that are offensive to others.

Students will check Horizon Email once daily. (You can forward your horizon email to your regular email if you find this easier to manage).

All assignments include a file name structure check. Please check your file name before submitting it.

All postings **MUST** be written in a business format. DO NOT use casual web style or texting in your postings or I will not grade them. I want "i's" capitalized, proper punctuation and spelling. USE SPELLCHECK!!!!

I recommend that you do all of your postings on the discussion board in WORD first, save them and then cut and paste them onto the discussion board. Sometimes Blackboard does funny things and this way you will not lose or have to rewrite your postings.

Discussions submissions will NOT be graded after the due/closing date per late submission policy. No Exceptions! Discussions are designed to prompt an interactive conversation and they need to be completed when the whole class is on the topic.

Quizzes will NOT be available after the due date so make sure you complete them in a timely manner.

Assignments submitted after the initial posting date will be deducted 10% for each day that it's late. The course is outlined step by step in the Assignments section. I strongly recommend that you print out these pages and keep them handy as a guide to what is due and when. Everything is listed in this section so you can use it as a checklist.

DO NOT leave assignments and discussion postings to the last minute! There is a due date for your initial postings and also for your response. It is your responsibility in a hybrid class to have access to a functioning computer. If you have computer problems there are computers available in the labs on campus. Computer problems ARE NOT a valid excuse for not completing assignments, discussions/debates or quizzes.

Academic Dishonesty, Cheating and Plagiarism: Plagiarism (presenting someone else's words or ideas as if they were your own) and cheating (stealing someone else's work or answers) cheapen your education and violate university codes of conduct. Play it safe, and if you are unsure if something is plagiarism or an act of cheating, ask for additional clarification. I take Plagiarism very seriously. All work in this class must be original and created by you. If you are referencing information from another source (internet article, textbook etc) you must cite the work. I hope it goes without saying but you cannot submit another student's work as your own. For more information on Plagiarism guidelines and how to reference and cite information correctly I have included the following resources.

<http://www.csub.edu/ssric-trd/howto/plagiarism.htm>

<http://library.duke.edu/research/citing/workscited/>

<http://owl.english.purdue.edu/owl/>

Plagiarism is taken very seriously in this course. The assignments, quizzes, and project were created to provoke thought within you about the topics being discussed; therefore it is important that you submit original work. This course utilizes plagiarism prevention software which will compare your assignments with other models submitted across the US, other students in this course, and articles available on the internet. If you submit someone else's model, you will receive a grade of zero for the assignment and the incident will be reported to the department and student judicial affairs. If a second act of plagiarism occurs, you will be subject to further action as determined by the instructor and Student Judicial Affairs. Potential consequences of a second offense may include failing the course and potential suspension or expulsion from the university. Some students are not sure what constitutes plagiarism. If you need assistance, please contact the instructor or visit the Student Center for Academic Achievement on the Hayward campus for more information. Plagiarism (presenting someone else's work or ideas as if they were your own) and cheating (stealing someone else's work or answers) cheapen your education and violate university codes of conduct. Play it safe, and if you are unsure if something is plagiarism or an act of cheating, ask additional clarification. Refer to Campus Academic Dishonest Policy for details. Refer to the Academic Dishonesty Policy link here for more information: <http://www20.csueastbay.edu/academic/academic-policies/academic-dishonesty.html>

Grievance Procedure: See the section entitled "Student Freedoms, Rights, and Responsibilities" in the appendix of the University Catalog.

Use of Cellular Phones or Electronic Devices: All cellular phones and pagers should be turned off or put in silent mode before entering the classroom. No electronic device such as laptops or tablets are allowed unless expressly authorized by the instructor.

Special Needs: If you have a documented disability and wish to discuss academic accommodations, or if you would need assistance in the event of an emergency evacuation, please contact me as soon as possible. Individuals with a disability are asked to register with the Student Disability Resource Center on campus as soon as possible (Hayward: 510-885-3868; Concord 925-602-6716). Many services are available, and we will need to arrange any necessary accommodations early in the semester, in order to maximize your learning experience.

Emergencies: California State University, East Bay is committed to being a safe and caring community. Your appropriate response in the event of an emergency can help save lives. Information on what to do in an emergency situation (earthquake, electrical outage, fire, extreme heat, severe storm, hazardous materials, terrorist attack) may be found at: [http://www.aba.csueastbay.edu/EHS/emergency\\_mgnt.htm](http://www.aba.csueastbay.edu/EHS/emergency_mgnt.htm). Please be familiar with these procedures. Information on this page is updated as required. Please review the information on a regular basis.