SYLLABUS

City College of San Francisco
CM 240 - Construction Cost Estimating (3 UNITS)
Fall 2018 - Wednesdays: 6:40-9:30 PM, Mission Center, Room 471

INSTRUCTOR: Gustav Alexander Choto **EMAIL:** Gustav.Choto@mail.ccsf.edu
MOBILE: 510-421-6588 **OFFICE:** Mission Campus, Faculty Offices Room 267
OFFICE HOURS: By Appointment

COURSE DESCRIPTION: A study of the fundamental approaches to estimating the cost of building construction projects. Topics discussed include: types of construction estimates; the material takeoff process; the use of computers in estimating; total project estimating including direct costs, indirect costs, contingency and profit.

Upon completion of this course a student will be able to:

A. Describe the estimating process, identifying the information required to construct an estimate.
B. Assemble and price an estimate for a building construction project including direct costs, indirect costs, profit and contingencies.
C. Develop material and labor quantity takeoffs for key construction systems.
D. Analyze construction documents to determine methods and means of construction in order to estimate rates of productivity, equipment and labor requirements.
E. Differentiate between different types of estimates and relate their appropriate use to the different phases of the construction process.
F. Describe the contractual, ethical and business considerations which influence the preparation of construction estimates.

CLASS SCHEDULE*

Date	Subject	Chapter	Assignment Due
8/22/2018	Prerequisite Confirmation/Teacher & Student Intros/ Syllabus Review		
8/29/2018	Intro to Estimating/Contracts/Insurance/Project Manual	1, 2, 3	
9/5/2018	Estimate/Overhead and Contingencies/Profit/Other Estimating Methods	4, 6, 21, 22	
9/12/2018	Labor/Equipment/Specialty Contractor	7, 8, 9	
9/19/2018	HW Catch-up and Independent Study outside of class		
9/26/2018	American Society of Professional Estimator's Meeting (Lean Const.)		
10/3/2018	Computers in Estimating (Demo & Hands-on of OST, WinEst & Vico Office, etc.)	5	
10/10/2018	**Midterm Exam** (1, 2, 3, 4, 5, 6, 7, 8, 9, 21, 22)		
10/17/2018	Excavation	10	Assignment - Oct 24
10/24/2018	Concrete Masonry Metals/Wood	11, 12	Assignment - Oct 31
10/31/2018	Thermal & Moisture Control	13, 14	Assignment - Nov 14
11/7/2018	Field Trip - Location TBD		
11/14/2018	Interior Finishes	17	Assignment - Nov 28
11/21/2018	Mock Bid Group Work (Group Assignment, meet in groups outside-class) (Thanksgiving Week)		Group Assign. Due Nov 28
11/28/2018	Continue Mock Bid in-class, Submit and present proposal in-class		
12/5/2018	Electrical/Plumbing/HVAC	18, 19, 20	
12/12/2018	**Final Exam Date Option 1** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20) or **Final Exam Review Q&A**		
12/19/2018	**Final Exam Date Option 2** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20)		

**Class Schedule Subject to Change – See Google Classroom for Updates*

Homework: Each assigned chapter has associated multiple choice chapter review questions. Homework will not be graded but turning it in will count towards your grade.

Text: Estimating in Building Construction, 9th Edition
Frank R. Dagostino & Steven Peterson, Pearson **ISBN:** 9780134701165

Classroom Software: **WinEst ®** by Trimble (Estimating Spreadsheet Software)
On-Screen Takeoff® by On-Center (Digital Quantity Takeoff Software)
Vico Office® by Trimble (BIM Tool for 3D model takeoff and estimating)
Google Apps (Classroom, Sheets, Docs, Slides, Drive, YouTube, Forms, Sites)

CCSF Department of Architecture Absence and Attendance Policy:
Since this is an evening 1 night a week course, we only have 18 sessions. It is critical you attend all scheduled classes and examination periods on time. Absences more than **15%** (*equivalent to 3 sessions*) of regularly scheduled class meetings as in the course syllabus result in a failing grade for the course. This policy shall not infringe upon any other rights a student may have granted to them under the college-wide rules and regulations.

Last Day to Drop without a "W": September 7, 2018
Last Day to Withdraw: September 12, 2018

PREREQUISITE: CM 110 or demonstration of CM 110 exit skills

GRADES:
1. Attendance is required:
   - 1_____Unexcused absence is allowed with no penalty
   - 2_____Unexcused absences: 5% Penalty
   - 3_____Unexcused absences: A final grade of **"F"** will be assigned.

2. Percentage Breakdown:

Class Participation/Discussion:	5% Total Grade
Chapter Review Questions (Homework):	15% Total Grade
Individual Assignments:	20% Total Grade
Group Assignment (RFP Proposal/Mock bid):	20% Total Grade
Midterm Exam:	20% Total Grade
Final Exam:	20% Total Grade

3. Course Grading:
   - A: 90-100%
   - B: 80-89%
   - C: 65-79%
   - D: 50-64%
   - F: 0-49%

4. Late assignments will be penalized 10% of grade value.

PLEASE SILENT CELL PHONES AND ELECTRONIC DEVICES DURING CLASS SESSIONS