California State University Northridge  
Department of Civil Engineering & Applied Mechanics  
CMT410/L: Construction Estimation (2/1 units)  
Spring 2006

**Time**  
Lec: 6:00 pm – 6:50 p.m. MW  
Lab: 18:30-19:45 p.m.

**Location**  
JD1563  
JD 1565B

**Instructor:** Mohamed Hegab, Ph.D., P.E.  
Office: JD 3509  
Tel: 677-7034  
Email: mhegab@csun.edu

**Course Web Page:** Go to WebCT page (http://webteach.csun.edu) and log on using your email and password, then click on the course link. Make sure to check your CSUN email frequently

**Office Hours:** 5:00 p.m. to 6:00 p.m. MW

**Catalog Description:**  
Procedures for analyzing materials and methods involved in reliable estimates of the cost of a construction task or project, including: direct, indirect, and contingency costs and profits. Two (2) hours of lecture-discussion per week and three (3) hours of technical activity-laboratory per week.

Lab: Timberline, Excel, HeavyBid Express software will be applied to practice estimating projects

**Course Prerequisite:** CMT 312

**Outcomes**  
The student should have the following qualities by the end of this course:

- Interpret confidently construction drawings  
- Become reasonably proficient in quantity takeoff and estimating principles and techniques  
- Become familiar with the background, skills, and responsibilities needed to understand and accurately estimate the cost of construction projects  
- Become familiar with conceptual, semi-detailed, and detailed estimates  
- Produce a quantity takeoff and an estimated project cost using selected estimating software and/or Microsoft Excel  
- Prepare a project bid that includes quantity takeoffs  
- Use labor productivity charts for calculating labor cost  
- Price an estimate using historical data  
- Calculate the overhead and profit for a project  
- Practice community service through working with LAUSD

**Text**


**Reference**

Community Service Project
Students will be split into groups that will be asked to assist LAUSD engineers in estimating construction projects. Each student should spend 15-25 hours in the community service. A report will be required at the end of the semester.

Grade Distribution
Assignments & Quizzes = 40%
Project = 10%
Exams (2@25%) = 50%

Grading Scale
A 90% - 100% A 85%- 89%
B 80% - 84% B 75%- 79%
C 70% - 79% C 65%- 69%
D 50% - 65% F Below 50%

General Policies
- Attendance at all classes is expected. For known absences, students should make prior arrangements with the instructor to make up quizzes or tests.

Exam Policies:
• Anticipated exam time frame is specified below. If any of these dates represent a conflict, please notify the instructor for possible changes of exam dates.
• Quizzes are usually unannounced.
• Make-up tests and quizzes will be allowed for only exceptional circumstances and proven medical emergencies.
• Intermediate exams are not comprehensive. However, the final exam is comprehensive with emphasis on the latest material covered.

Assignment Policies:
• Consultation with other students for solving assignments is acceptable. But each student must report his/her work independently. All identical assignments may receive a score of zero on that assignment.
• Assignments are due by class time. one week from the date they are assigned
• Late assignments will receive point deduction at the rate of 10% per day. No assignment will be accepted after graded assignments are returned except for proven medical emergencies.
• Most exam problems will be similar to assignment problems. Therefore, solving assignments is a key in being successful in exams.

Students with Disabilities
Any students with disabilities or other special needs and who need special accommodations in this course, are invited to share these concerns or requests with the instructor as soon as possible.

Academic Dishonesty
All work in this course must be completed in a manner consistent with Section 41301, Title 5, California Code of Regulations, as published in the University Catalog.
### Agenda*

Chapters of blueprint reading book will be shown in **Bold**

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May, 22nd  
Final Exam  
8:00p.m. – 10:00p.m.

* This agenda is subject to changes by the instructor.