

**Cost Analysis & Bidding**  
**CNST 6320**

**Course Description**

The course addresses the preparation of parametric and definitive estimates, cost forecasts and variances, bid analysis, and use of estimating software.

**Course Prerequisites**

Graduate standing or consent of instructor.

**Textbook**

Estimating Construction Costs, by Garold D. Oberlender (Author), R.L. Peurifoy, McGraw Hill

**Learning Objectives**

Upon the completion of the course students will demonstrate the ability to:

1. Prepare parametric estimates
2. Prepare definitive estimates
3. Estimate labor cost, equipment cost, and materials handling cost
4. Utilize computer software to prepare estimates

**Schedule of Topics\***

<b>Module#</b>	<b>Topics</b>	<b>Reading Assignments</b>
1 (week 1-2)	<b>General Introduction</b> - Terminology - Order of magnitude Estimates - Conceptual Estimates	<b>Chapter 1, 2, 3, and 4</b>
2 (week 3-4)	<b>Detailed Estimate</b> - Organization - Cost Manuals - Calculations	<b>Chapter 7, and 10</b>
3 (week 5-6)	<b>Labor Cost</b> - Components - Calculations	<b>Chapter 5</b>
4 (week 7-8)	<b>Equipment Cost</b> - Ownership Components - Operation Components - Calculations	<b>Chapter 9 and 11</b>
5 (week 9-10)	<b>Materials Handling</b> - Process - Balanced Operations	<b>Chapter 6 and 15</b>
6 (week 10-12)	<b>Computer Applications</b> - Excel Spreadsheets - Timberline	<b>Chapter 25</b>
(week 13-15)	- <b>Course Review</b> - <b>Final Exam</b>	

**Homework Assignments**

Late submissions will incur score penalties. Homework submission must be through Blackboard as an attachment to an email.

### **Quizzes**

Quizzes are designed to assist you in understanding the course materials and to provide you with examples of the type of questions that will be on the final exam. A quiz is posted for each module. It is recommended that you take the quiz immediately after you complete each module. You are allowed only one chance to open each quiz. Do not attempt to open a quiz until you are ready to answer the questions and complete the quiz.

### **Final Exam**

Students will be requested to take the final exam on UH campus. However, students residing outside of a reasonable distance from the city of Houston may request to take the final exam at a designated testing facility convenient to their geographical locations. Final Exam is scheduled during week 15. Exact time and location will be announced during the semester. Students must make early arrangements with their employers and others to make sure they do not miss the Final Exam. There will be no makeover exams.

### **Academic Honesty**

The instructor reserves the right to adjust letter grades, upward only, based on individual attendance and class participation if numerical grade warrants such consideration. Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and dismissal from The University. Since dishonesty harms the individual, all students, and the integrity of The University, policies on scholastic dishonesty will be strictly enforced.

### **Students with Disabilities**

University of Houston provides, upon request, appropriate academic adjustments for qualified students with disabilities. Any student with a documented disability (physical or cognitive) who requires academic accommodations should contact the Center for Students with Disabilities (713/743-5400) for more assistance.

### **Exam Policy**

Exams will include material covered in class discussions and homework assignments. The student is responsible for all reading assignments and class handouts whether or not covered in class or listed on the syllabus.

### **Course/Instructor Evaluation**

A course/instructor evaluation will be conducted in class during the last scheduled lecture. Any suggestions you have on improving the course, however, are welcome throughout the term.

For detailed information about Disabilities, Religious Holy Days, the Academic Calendar, and Academic Honesty, and other information, please visit the UH website:

[http://www.uh.edu/provost/stu/stu\\_syllabsuppl.html](http://www.uh.edu/provost/stu/stu_syllabsuppl.html)