



ARCHITECTURE, CONSTRUCTION & MANUFACTURING TECHNOLOGIES DIVISION

CONSTRUCTION TECHNOLOGY DEPARTMENT
COURSE SYLLABUS

COURSE NUMBER: **CNBT 1346 Hybrid - Spring 2024 (6242-RT)**

COURSE TITLE: **Construction Estimating I**

CREDITS: 3 (3 lecture)

PREREQUISITE / COREQUISITE: CNBT 1201

Class	Class Title	Days & Times	Room	Class Dates
CNBT 1346-04 (10382)	Construction Estimating I (Lecture/Laboratory)	Mo, 6:00PM - 7:30PM	Central-J.B. Whiteley - Rm 229 B	Jan 16, 2024 – May 12, 2024

INSTRUCTOR

Eva Lyon, BSA, MCM, CDT, DE Instructor

Classroom: Face to Face (F2F) and Hybrid by Eagle Online

Office Hours: **Monday (before class)** or by appointment Cisco Webex

Contact: By Eagle Online (Inbox in our Canvas Course) After Session begins: Include your Student ID number, Course name and CRN number in the subject line on all emails. See syllabus and more information on the Learning web: <http://learning.hccs.edu/faculty/eva.lyon>

COURSE DESCRIPTION

This course introduces students to the skills and tools necessary to prepare cost estimates for processes and projects. It focuses on different classes of estimates, labor and equipment productivity, material pricing, indirect/overhead costs, bid analysis, and the use of computer-aided software.

END-OF-COURSE-OUTCOMES

This course provides a thorough understanding of Construction Estimating in Architectural Engineering-Construction and related areas. This course will also introduce several standard estimating Excel spreadsheets for the students' use. Identify construction materials, list their cost, and describe the various construction methods.

STUDENT LEARNING OUTCOMES	
SLO # 1	Identify construction classifications and commonly used construction materials.
SLO # 2	Create Construction Project Cost Estimates
SLO # 3	Analyze construction documents for planning and management of construction processes

SLO # 4	Apply Electronic-Based Technology to Manage the Construction Process
SLO # 5	Understand Construction Risk Management

COURSE OBJECTIVES

Upon the completion of this course, students should be able to demonstrate the understanding of:

- Estimating terminology
- Conceptual estimates
- Detailed estimates for Process and Industrial Plants
- Labor, equipment, and material pricing
- Development of cost estimate package
- Be familiar with computer aided-estimating programs.

TEXTBOOK:

The textbook listed below is not **required for this course.**

"Construction Estimating: (3rd edition) by *Leonard P. Toenjes*

ISBN: 9780826905451 It is for sale at the [HCC Bookstore](#).

COMPUTER PROGRAMS:

The Microsoft Excel program will be required to complete homework assignments and class projects inside and outside of the classroom. The use of other programs such as Microsoft Word and PowerPoint might be required to complete assignments, quizzes, and safety moments.

STUDENT EVALUATION

The percentage of the total grade determined by each part of the course assessment sequence:

• Book Quizzes	25%	
• Assignments	20%	
• Middle Term Exam	15%	
• Attendance/Participation	15%	
• Exercises/Test in class	10%	
• Class Project/Final Presentation	15%	
Total:	100%	(Instructor may modify the ratio)

GRADING PROCEDURE

A = 90 –100 B = 80 – 89 C = 70 – 79 D = 60 – 69 F = below 59

COURSE POLICIES

Schedule/Topics Outline

The schedule for this class includes a topic outline/schedule that is not in this syllabus, in a separate link to a calendar document “*Class Schedule*” in your Eagle Online course in Syllabus & Schedule.

<https://www.hccs.edu/online/student-support/>

Attendance

Students are expected to attend classes regularly, and to be on time for every class period. Students can be dropped from a class due to excessive absences. Excessive tardiness may be considered absences. Students are responsible for subjects, assignments, and projects covered during their absences. Consult the ***Student Handbook*** for more details or visit <http://www.hccs.edu/hccs/current-students/student-handbook>

Academic Honesty

Scholastic dishonesty is treated with the utmost seriousness by the instructor and the College. Academic dishonesty includes, but it is not limited to the willful attempt to misrepresent one’s work, cheat, plagiarize, or impede other students’ scholastic progress. Consult the ***Student Handbook*** for more details.

Students with Disabilities

Any student with a documented disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations must contact the **Disability Support Services Office** at his / her respective college at the beginning of each semester. Faculties are authorized to provide only the accommodations requested by the **Disability Support Services Office**. Central College, call 713-718-6164.

Cell Phones, iPhones, iPad

All cell phones must be muted, set to vibrate, or turned off during class. Cell phone activity during class is deemed disruptive to the academic process and will not be tolerated. If you need to make or receive an emergency call, please leave the classroom.

Parking Rules and Regulations

Students are required to follow HCC’s regulations regarding parking and permits. For additional information, visit <http://www.hccs.edu/hccs/about-hcc/police/parking/parking-rules-and-regulations>

Books, Tools and Supplies

Students are required to purchase and bring to class the required textbooks, tools, notebooks, supplies, and writing instruments as required by the instructor.

Dress Code

Dress code must be appropriate for the class. Students must dress in a way that clothing and accessories do not compromise their safety, and the safety of others. Proper foot wear is required in all laboratories. Absolutely no sandals or other footwear that exposes the feet will be allowed.

Classroom & Laboratory Conduct

Proper behavior is expected in all classes and laboratories. Foul language and horseplay are not allowed. Making or receiving cell phone calls during class are not allowed. Sleeping in class is not allowed.

Course Withdrawal

It is the responsibility of the student to officially withdraw from a course before the official withdrawal deadline. A student who does not withdraw from a course by the deadline will receive an “F” as the final grade. Also note that under Section 51.907 of the Texas Education Code, an institution of higher education may not allow a student to drop more than six courses.

Discrimination

Students should be aware that discrimination and/or other harassment based on race, sex, gender identity and gender expression, national origin, religion, age, disability, sexual orientation, color or veteran status is prohibited by HCC Policy G.1 Discrimination and Harassment and D.1.1 Equal Educational Opportunities. Any student who feels they have been discriminated against or harassed on the basis of race, sex, gender identity, gender expression, national origin, religion, age, disability, sexual orientation, color or veteran status including sexual harassment, has the opportunity to seek informal or formal resolution of the matter.

All complaints/concerns should be directed to the Office of Institutional Equity, 713 718-8271 or oiie@hccs.edu. Additional information may be obtained online. Visit <http://www.hccs.edu/district/departments/institutionalequity/>. Complaints involving sexual misconduct to include but not limited to: sexual assault, stalking, dating violence, sexual harassment or domestic violence should be directed to the HCC Title IX Coordinator, Renée Mack at 713 718-8272 or renee.mack@hccs.edu.