

Technical College of the Lowcountry
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BCT 131
ESTIMATING QUANTITY TAKE OFF

Course Description

This course covers construction estimation and quantity take-off for construction trades based on local and national building codes. Lec. 2 Lab. 0 Cr. 2

Course Focus

This course focuses on estimating all parts of residential homes including site work, concrete, framing, plumbing, HVAC, electrical, drywall, paints etc...

Text and References

Estimating for Residential Construction, 2nd Edition
David Pratt - Southern Alberta Institute of Technology, Calgary, AB, Canada
ISBN-10: 111130887X , ISBN-13: 9781111308872

Course Goals

The following list of course goals will be addressed in the course. These goals are directly related to the performance objectives. (*designates a CRUCIAL goal)

1. recognize different shapes in buildings
2. identify types of builders
3. identify types of contracts
4. outline the role of architects
5. outline the role of builders
6. make site visit reports
7. prepare bills of materials
8. calculate areas
9. calculate volumes
10. calculate perimeters
11. organize cost estimates
12. measure the work of a construction project
13. explain building estimating
14. make accurate estimates
15. write construction contract
16. use electronic digitizer
17. read blueprints
18. prepare quantity takeoff for concrete

19. prepare quantity takeoff for framing
20. know carpentry details
21. measure rough carpentry work
22. takeoff rough carpentry
23. takeoff finish carpentry
24. convert fraction to decimals
25. convert decimals to fractions
26. read measuring ruler
27. recognize sizes of masonry
28. describe price per fixture method
29. write bid proposal
30. describe quantity takeoff

Student Contributions

The student is expected to be prepared for class and to be in class on time.

The student is required to observe and practice all safety rules.

The student will not be allowed in the lab with any type of open toe shoe or loose fitting pants and shirts. (flip flops etc.) No cell phones are allowed to be used in the classroom. This includes texting.

Course Evaluation

The grading scale is as follows:

90 - 100 = A

80 - 89 = B

70 - 79 = C

60 - 69 = D

Below 60 = F

Course Schedule/Outline

The class meets for 1 lecture/presentation hours per week for a total of 16 weeks during fall and spring semesters. Summer meets for 10 weeks one day a week.

Approved by: Kenneth Flick Developed/Revised: 5/2011
Ken Flick, Division Dean for Business/Industrial Division

ADA STATEMENT

The Technical College of the Lowcountry provides access, equal opportunity and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. To request disability accommodation, contact the counselor for students with disabilities at (843) 525-8228 during the first ten business days of the academic term.

ACADEMIC MISCONDUCT

There is no tolerance at TCL for academic dishonesty and misconduct. The College expects all students to conduct themselves with dignity and to maintain high standards of responsible citizenship.

It is the student's responsibility to address any questions regarding what might constitute academic misconduct to the course instructor for further clarification.

The College adheres to the Student Code for the South Carolina Technical College System. Copies of the Student Code and Grievance Procedure are provided in the *TCL Student Handbook*, the Division Office, and the Learning Resources Center.

ATTENDANCE

The College's statement of policy indicates that students must attend ninety percent of total class hours or they will be in violation of the attendance policy.

- Students not physically attending class during the first ten calendar days from the start of the semester must be dropped from the class for NOT ATTENDING.
- Students taking an online/internet class must sign in **and** communicate with the instructor within the first ten calendar days from the start of the semester to indicate attendance in the class. Students not attending class during the first ten calendar days from the start of the semester must be dropped from the class for NOT ATTENDING.
- Reinstatement requires the signature of the division dean.

In the event it becomes necessary for a student to withdraw from the course OR if a student stops attending class, it is the student's responsibility to initiate and complete the necessary paperwork. Withdrawing from class may have consequences associated with financial aid and time to completion.

When a student exceeds the allowed absences, the student is in violation of the attendance policy. The instructor MUST withdraw the student with a grade of "W", "WP", or "WF" depending on the date the student exceeded the allowed absences and the student's progress up to the last date of attendance

or

under extenuating circumstances and at the discretion of the faculty member teaching the class, allow the student to continue in the class and make-up the work. This exception must be documented at the time the allowed absences are exceeded.

Absences are counted from the first day of class. There are no "excused" absences. All absences are counted, regardless of the reason for the absence.

▪ A student must take the final exam or be excused from the final exam in order to earn a non-withdrawal grade. A copy of TCL's **STATEMENT OF POLICY NUMBER: 3-1-307 CLASS ATTENDANCE (WITHDRAWAL)** is on file in the Division Office and in the Learning Resources Center.

HAZARDOUS WEATHER

In case weather conditions are so severe that operation of the College may clearly pose a hardship on students and staff traveling to the College, notification of closing will be made through the following radio and television stations: WYKZ 98.7, WGCO 98.3, WGZO 103.1, WFXH 106.1, WWVV 106.9, WLOW 107.9, WGZR 104.9, WFXH 1130 AM, WLVA 101.1, WSOK 1230 AM, WAEV 97.3, WTOC TV, WTGS TV, WJWJ TV, and WSAV TV. Students, faculty and staff are highly encouraged to opt in to the Emergency Text Message Alert System. www.tcl.edu/textalert.asp

Emergency Text Message Alert

Students, faculty and staff are highly encouraged to opt in to the Emergency Text Message Alert System. Participants receive immediate notification of emergency events and weather cancelations via text messaging on their cell phones. Participants can also opt in to receive non-emergency news and announcements. Go to www.tcl.edu. On the homepage, click on “emergency TextAlert at TCL” and fill out the form or go to www.tcl.edu/textalert.asp