

Technical College of the Lowcountry
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BCT 208 Framing and Roofing

Course Description

This course covers the principles and hands-on experience in constructing framing and roof structures.
Lec. 3 Lab. 0 Cr. 3

Course Focus

This course will focus on framing floors, walls, ceilings, and roofs as they relate to residential construction.

NEW - FOUNDATIONS/FRAMING/RENOVATIONS CERTIFICATE

Program Description: The Foundations/Framing/Renovations certificate program is the study of foundations and framing techniques used in residential construction, as well as the techniques used in renovating and remodeling existing residential structures. Emphasis is placed on "green" building techniques outlined by the Leadership in Energy and Environmental Design (LEED) principles

Required Certificate Courses	Lec	Lab	Credits
BCT 208 Framing/Roofing	3	0	3
BCT 210 Interior/Exterior Installation	3	0	2
BCT 244 Site Layout/Foundation Types	3	0	3

Text and References

Carpentry, Fifth Edition, Instructor's Guide, Floyd Vogt, ISBN-13: 978-1-4354-8405-4 with workbook ISBN-13: 978-1-4354-8406-1

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. build girders

2. know frame construction types
3. state wood pest prevention construction techniques
4. understand wood pest destruction prevention
5. install bridging
6. cut bridging
7. apply subflooring
8. install floor joists
9. characterize wall framing variations
10. install girders
11. understand basic framing methods and practices
12. describe framing methods
13. identify common framing terms
14. construct ceiling frame system
15. construct wall frame system
16. choose proper materials
17. construct floor frame system
18. select proper materials
19. identify floor frame construction types
20. describe floor frame layout
21. define key terms and concepts
22. design sills
23. determine stairway rise and tread run
24. frame floor opening
25. build columns
26. organize job site materials and tools
27. estimate material costs
28. assemble and erect wall sections
29. practice safety precautions
30. estimate roofing materials
31. identify wood shingles grades and sizes
32. state wall framing methods
33. frame and lay out stairways
34. stack materials
35. determine stairwell length
36. describe stairways and stair design varieties
37. apply roof sheathing
38. frame various roof types
39. apply wall sheathing
40. construct exterior wall frame
41. build corner posts
42. determine exterior wall stud length
43. depict wall frame functions
44. frame exterior walls
45. apply roof materials

Student Contributions

The student is expected to be prepared for class and to be in class on time. Cell phones are not allowed to be used in the classroom. This includes texting. All electronic devices including cell phones, pagers, computers, Ipods, Ipads must be turned off during class.

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, WWVW 106.9, WLOW 107.9, WGZR 104.9, WFXH 1130 AM, WLVA 101.1, WSOK 1230 AM, WAEV 97.3, WTOG 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 cancellations 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

BROADCAST LEARNING FORMAT: This class is being taught in a broadcast learning format. Images and word of class participants may be transmitted live or on a delayed basis to other locations. Classes may be rebroadcast due to extenuating circumstance.

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 or spring semesters.

Developed/Revised: January 4, 2011