

Technical College of the Lowcountry
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BCT 241 GREEN MATERIALS

Course Description

This course will cover the management of materials on a residential construction project. The course will also include the selection of materials for recycled content and low volatile organic content. Indoor air quality issues arising from construction and building commissioning are discussed. 3cr.

Course Focus

This course will focus on how to make the indoor air quality of building healthier as well as using materials that are environmental friendly and sustainable. Students will make a presentation to the class on two green product or materials.

Text and References

No text at this time. Course work will include excerpts for LEED for Homes, Building Green website and other manufacturing websites that make green materials.

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. Define green materials
2. Define Voc's
3. Indoor air quality
4. Recycled material
5. Salvage materials
6. Reclaimed materials
7. Green washing
8. Post-consumer products
9. Pre-consumer products
10. List Green building programs
11. Used materials
12. three dimensions of sustainability
13. reduce off-gassing
14. life cycle assessment
15. heat island effect
16. indoor air quality
17. Forest Stewardship Council
18. exfiltration
19. infiltration

20. LEED for Homes
21. term “Shades of Green”
22. sources of pollutants
23. Indoor AirPlus certification
24. Minimum Energy Rating Values
25. balanced type ventilation systems
26. Moisture control
27. source control and removal
28. HERS inspectors
29. Test attached garages
30. Building Performance Institute analysis
31. Corrosion proof rodent screens
32. GREENGUARD
33. Independent third-party labels
34. Life cycle assessments
35. Approve radon –resistant features
36. Worst case caz testing
37. Properly size all HVAC equipment
38. Identify climate zones
39. Choose environmental products
40. Know the triple bottom line
41. Ventilate the home
42. NAHB green verifier
43. Build swales and berms
44. Slope patios and walks
45. Use moisture barriers

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.

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. Summer Classes meet for 10 weeks one day a week.

Approved by: *Kenneth Flick*

Developed/Revised: 5/13

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, WWVW 106.9, WLOW 107.9, WGZR 104.9, WFXH 1130 AM, WLVH 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