BCT 141
Fixtures and Installations

Course Description
This course is the study and application of planning and installing fixtures and devices. Lec. 3 Lab. 0 Cr. 3

Course Focus
This course will focus on the necessary skills needed to complete the installation of different type of luminaries, fans, and some appliance wiring residential construction.

Text and References

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. select lighting fixtures
2. install lighting circuit
3. identify incandescent lamp bases
4. follow job site safety
5. locate electrical fixtures from blueprints
6. measure foot candles
7. review color temperature scale
8. know common fixture types
9. identify fluorescent lamps
10. know different lamp types
11. install ballast in fluorescent fixtures
12. install paddle fans
13. install type non IC fixtures
14. install type IC fixtures
15. know color rendition
16. know color temperature
17. measure lamp efficacy
18. install fan outlets
19. know luminaries definition
20. define luminaries (fixtures)
21. install luminaries (fixtures)
22. use basic lighting fundamentals
23. consider lamp life
24. make pigtail splices
25. align mounting holes on luminaries
26. connect conductors to correct terminals
27. wear safety equipment
28. identify the ungrounded, grounded, and grounding conductors
29. verify the absents or presence of electrical energy
30. install all luminaries to NEC
31. inspect contents of fixtures
32. identify structure of incandescent lamps
33. provide adequate light source for task
34. practice making terminal loops
35. match both the lamp and the fixture to the desired application
36. store lighting fixtures with care
37. handle light fixtures with care
38. read manufacturer's instructions
39. test fixture for proper operation
40. test fixture for proper connections
41. select correct fixture trims
42. identify basic CFL types
43. identify three type of fluorescent ballast
44. know function of the ballast
45. cite three major testing labs

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, WWVV 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](http://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

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 7, 2011