



Technical College of the Lowcountry  
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## **AET 124 RESIDENTIAL DESIGN I**

### **Course Description**

This course is a study of residential components, such as Site/House interface and dining areas, kitchens, bedrooms, and baths, and how they function and form the entire residence.

3 Cr (3 lect/pres, 0 lab, 0 other)

### **Course Focus**

This course will instruct the design of residential layout including but not limited to site analysis, architectural review requirements (including city/county setback regulations), solar orientation, exterior and interior components along with hand drawings and a model.

### **Text and References**

Architecture Residential Drafting and Design, 10<sup>th</sup>, Clois E. Kicklighter, The Goodheart-Willcox Company, Inc., 978-1-59070-699-2

### **Course Goals**

The following list of course goals will be addressed in the course. These goals are directly related to the performance objectives.

1. define residential design
2. define green build
3. define forms shapes
4. examine site plan
5. study topographic survey
6. locate permanent objects
7. study city site restrictions
8. study county site restrictions
9. explore elevation survey
10. define solar orientation
11. define solar sustainability design
12. study setback requirements
13. define encroachment requirement
14. study site plan approach
15. study foundation needs
16. develop construction strategy
17. consider recycling plan
18. develop erosion control plan
19. examine natural habitat
20. decide foundation type
21. develop floor plan

22. determine area requirement
23. determine room requirement
24. demonstrate flow justification
25. examine tenant requirement
26. evaluate room sizes
27. establish cabinet sizes
28. estimate appliances sizes
29. establish bath necessities
30. examine door size requirement
31. establish flow between rooms
32. study ceiling height requirement
33. explore cooling method
34. explore heating method
35. examine garage need
36. prepare first floor layout
37. justify entrance exit
38. choose appropriate finishes
39. choose color finishes
40. define utility requirement
41. choose exterior finishes
42. develop exterior elevations
43. prepare drawing set
44. perform task management
45. develop project schedule

### **Student Contributions**

Each student will spend at least 2.5-5 hours per week preparing for class. Attendance is critical in this class.

### **Course Evaluation**

**The following is the grading scale: Pretests and Tests 75%      Final Exam: 25%**

The grading scale is as follows:

90 - 100 =	A	60 - 69	=	D
80 - 89 =	B	Below 60	=	F
70 - 79 =	C			

### **Course Schedule**

The class meets for 3 lecture/presentation hours per week.

## 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. Reinstatement requires the signature of the division dean.
- 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, 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](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 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](http://www.tcl.edu). On the homepage, click on "emergency Text Alert at TCL" and fill out the form or go to [www.tcl.edu/textalert.asp](http://www.tcl.edu/textalert.asp)