

Technical College of the Lowcountry
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**EGR 296
ENGINEERING SURVEYING LAB II**

COURSE DESCRIPTION

This course covers locating buildings and other objects within a boundary survey, performing a topographic survey, preparing a topographic map, and staking out a horizontal curve.

1 Credit

COURSE FOCUS

This course is to employ the fundamentals of plane surveying in the field. The course covers a variety of surveying techniques and surveying uses in civil engineering and construction. The course includes the use of total station instruments and global positioning system (GPS) equipment.

TEXT AND REFERENCES

Wolf & Ghilani, **Elementary Surveying, an Introduction to Geomatics**, 12th Edition, Prentice Hall
Published: 2008
ISBN 978-0-13-615431-0

COURSE GOALS

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

1. Describe data collector storage system
2. Setup data collector file
3. Collect traverse points with data collector
4. Perform side shots with data collector
5. Complete topographic survey
6. Know survey codes
7. Recognize tree types
8. Perform offset point collection
9. Setup GPS equipment

10. Collect points with GPS
11. Collect flood zone reporting data
12. Compute building corner coordinates
13. Stake building corners
14. Use horizontal curve software
15. Stake horizontal curve
16. Perform sun shot
17. Download data files

STUDENT CONTRIBUTION

Each student will be in class on time.

Each week students will complete and turn in assignments as specified. Students will also complete a final project to demonstrate their knowledge of the material.

COURSE EVALUATION

The grade scale is as follows:	90 – 100 =	A
	80 – 89 =	B
	70 – 79 =	C
	60 – 69 =	D
	Below 60 =	F

Course grades will be determined from the following weighting scheme:

Attendance/Fieldbook Review	20%
Project completion	80%

COURSE SCHEDULE

The class meets for 3 lab 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.
- 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

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 Text Alert at TCL” and fill out the form or go to www.tcl.edu/textalert.asp