



Technical College of the Lowcountry
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EGT 257 ADVANCED CIVIL CAD

Course Description

This is an advanced CAD course for the civil add-on software package. Students will learn the new commands and features associated with the add-on package. Students will complete their drawing assignments using the new commands and features. 3 Cr (3 lect./pres, 0 lab, 0 other)

Course Focus

Upon completion of the course a student will be able to use AutoCAD Civil 3D that supplies with tools for expediting timely tasks related to civil engineering and land surveying. "Autodesk's software AutoCAD, which was at one time perceived as a drawing aide for drafters has since evolved into a network of tools relied upon by design professionals around the world".

Text and References

AutoCAD Civil 3D 2013 Essentials, ASCENT-Center for Technical Knowledge, Autodesk, ISBN 978-1-58503-723-0
(Textbook changes every year. Please check with instructor for the latest book).

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. learn civil 3D workspaces
2. learn civil 3D tool space
3. use panorama dialog box
4. learn project configuration
- *5. sharing civil data
- *6. sharing multiple drawings data
7. learn key terms
8. learn vault architecture
- *9. share vault data
10. manage style settings
11. incorporate legacy drawing
12. learn example project
13. learn importing survey field books
14. tabulate civil 3D points
15. create point graphics
16. create point groups
17. manage point display
18. prepare civil3D surface
- *19. assign surface data

20. define surface properties
21. manage contour data
22. edit lines points
23. review through edit history
24. apply contour surface smoothing
25. review surface labels
26. compute volume calculations
27. display surface analyses
28. understand alignment relationship
29. create simple alignments
30. edit tabular alignments
31. create alignment labels
32. create profile views
33. create surface profiles
34. learn profile transparent commands
35. display existing proposed elevations
36. use plan production tool
37. create attach detach subassemblies
38. create copy assemblies
39. create defined corridor
40. develop section views
41. learn grading configuration
42. create pipe networks
43. learn production tools
44. create object parcels
45. learn parcel subdividing
46. develop parcel report

Student Contributions

Each student will spend at least 6 hours per week preparing for class. Attendance is critical in this class.

Course Evaluation

The following is the grading scale: Assignments: 50% Tests: 50%

The grading scale is as follows:

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

Course Schedule

The class meets for 2 1/2 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.
- 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, 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

EXTRA:

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