



TECHNICAL COLLEGE OF THE LOWCOUNTRY

Technical College of the Lowcountry
921 Ribaut Road ~ PO Box 1288
Beaufort, SC 29901-1288

Karen Smith
Business Technologies Division
Building 14, Room 126
843-525-8323
ksmith@tcl.edu

CPT 174 Microcomputer Spreadsheets

COURSE DESCRIPTION

This course introduces the use of spreadsheet software on the microcomputer. Topics include creating, editing, using formulas, using functions, and producing graphs.

COURSE FOCUS

This course is designed to provide the student with basic knowledge of how to use microcomputer spreadsheet software.

TEXT AND REFERENCES

Refer to the TCL Bookstore page on the TCL Website for the most recent textbook information at www.tcl.edu/bookstore

Software Requirements

You are required to use Microsoft Excel 2016 or Office 365 software—available free to students. When you log into your TCL email account, you will see where you can download the software.

Another method is to copy and paste the URL that follows into your browser and follow the instructions provided to download the software. <https://products.office.com/en-us/student/office-in-education>

Note: If you already have Office 2016 or Office 365 loaded on your computer, do not try to download it again.

Computer Requirements

It is best if you use a PC for this class. If you have a Mac computer, you will most likely run into some difficulty in completing the assignments because the Office software for a Mac is different from the Office software for a PC. The textbook provides instructions using Office software that runs on a PC. You may use the computers on campus to complete assignments, and the TCL library loans out PCs to students as well.

COURSE GOALS

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

1. Understand purpose of spreadsheet software programs
2. Start and close spreadsheet software program
3. Identify the parts of the Excel program window
4. Become familiar with spreadsheet terminology

5. Resize, move, and scroll Windows
6. Work with ribbons and menus
7. Work with programs, files, and folders
8. Browse the Internet to obtain information
9. Use the search feature
10. Use the Microsoft Help feature
11. Use various Microsoft Excel tools to create, save, and print spreadsheets
12. Apply sparklines to a spreadsheet
13. Edit and format worksheets
14. Create, edit, and format charts
15. Use wizards
16. Apply formulas and functions to spreadsheets
17. Create, sort, and filter an Excel table
18. Apply statistical and logical calculations to data
19. Summarize data on multiple worksheets
20. Automate workbooks to look up information automatically
21. Validate data in a workbook
22. Apply goal seeking to a workbook
23. Utilize financial and lookup functions
24. Apply names to cell ranges
25. Save workbooks to share with others
26. Query large amounts of data
27. Audit workbook formulas to locate and correct errors
28. Use Solver and Scenario tools to evaluate complex formulas
29. Project income and expenses
30. Determine break-even points in a workbook
31. Record, assign, and modify macros
32. Write VBA procedures for a workbook
33. Import external data into a workbook
34. Apply conditional formatting to a worksheet
35. Create custom headers and footers
36. Insert a screenshot
37. Create and use side-by-side tables
38. Implement database functions in Excel
39. Create a shared workbook
40. Track changes made to a workbook
41. Work with multiple worksheets in a workbook
42. Work with trendlines, PivotTables, PivotCharts, and Slicers
43. Create macros

STUDENT CONTRIBUTIONS

Each student will spend approximately four hours per week completing assignments/tests to turn in weekly as specified on Blackboard and/or in MyITLab.

COURSE EVALUATION

Final grades for this course are calculated as follows:

MyITLab Simulations/Exams: 30%

MyITLab Assignments/Projects: 30%

Review Assignments/Projects: 20%

Final Exam/Project: 20%

COURSE SCHEDULE

The schedule for this course is provided in Blackboard on the Assignments page. It is important that all instructions in Blackboard be followed carefully as some assignments are completed and uploaded in Blackboard and others are completed and uploaded in MyITLab. MyITLab is an online component used for this course. Additional information regarding MyITLab is located in Blackboard.

Approved by: Kelli Boniecki **Developed/Revised:** May 7, 2019

Division Dean for Business & Industrial Divisions

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.

ONLINE ATTENDANCE PROCEDURE

For all online courses, students must complete an assignment designated by the instructor during the first week of classes. The instructor will drop the student from the course if the initial assignment is not completed.

Instructors will withdraw students from the class when 90% attendance is not maintained. Attendance in an online course is defined by regular course access and by timely completion of assignments as required by the instructor. Each student will be expected to access the web class at least once a week and complete 90% of assignments on time. Additional access is encouraged and may be necessary for successful completion of classes.

Failure to log in and complete assignments will result in the student being withdrawn from the course. The instructor will assign a grade of “W,” “WP,” or “WF” based upon the student’s academic standing as of the last date of attendance, which is the last login. **Students are responsible for any financial matters associated with an administrative withdrawal.** If a student fails to email the instructor (using the my.tcl.edu email account) requesting to be dropped from the course and has not submitted the initial assignment required during the first week of class, the instructor will assign a “Never Attended” code in the student information system (Self-Service) no later than ten calendar days after the first day of the class. Students who are dropped as a result of never attending the course **are still responsible for all fees associated with the course.**

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 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

Syllabus Safety Addendum

Purpose

The purpose of this safety addendum is to provide each student with safety guidelines during an incident, emergency, or disaster at TCL. In addition, it provides students guidelines for lockdown procedures, evacuation procedures, and active shooter.

Definition

An incident is any event, potential or actual, that may impact normal operations but has no immediate health or life threatening consideration or serious effect on the overall functional capacity of the College. An event of this nature should be reported to the Office of the Vice President for Administrative Services. Also notify the off-site campus administrator if applicable.

An emergency is any incident, potential or actual, which may endanger life or health or which affects an entire building or buildings, and will disrupt the overall operations of the College. Outside emergency services will probably be required, as well as major efforts from campus support services. Major policy considerations and decisions will usually be required from the college administration during times of crises. An emergency should be reported immediately by directly using **911** if life or health/injury considerations exist and then to the Office of the President or Vice President for Administrative Services as quickly as possible. Also notify the off-site campus administrator if applicable.

A disaster is any event or occurrence that has taken place and has seriously impaired or halted the operations of the College. In some cases, mass personnel casualties and severe property damage may be sustained. A coordinated effort of all campus-wide resources is required to effectively control the situation. Outside emergency services will be essential. In all cases of disaster, an Emergency Control Center will be activated, and the appropriate support and operational plans will be executed. The disaster should be immediately reported, first by calling **911** and then to the Office of the President or Vice President for Administrative Services. Also notify the off-site campus administrator if applicable.

Types of Emergencies

- Hurricane
- Tornado
- Fire
- Biochemical or Radiation Spill
- Explosion/Bomb
- Downed Aircraft (crash which directly impacts campus operations)
- Utility Failures
- Violent or criminal behavior
- Psychological Crisis

Procedures

Active Shooter

Run/hide/fight (<http://www.fbi.gov/about-us/cirg/active-shooter-and-mass-casualty-incidents/run-hide-fight-video>)

Building Evacuation

1. Building evacuations occur when an alarm sounds and/or upon notification by Security or the Emergency Director.
2. When the building evacuation alarm is activated during an emergency, individuals should exit according to the building evacuation plan and alert others to do the same.
3. Once outside, individuals should proceed to a clear area that is at least 500 feet away from the affected building. Streets, fire lanes, hydrant areas and walkways should be kept clear for emergency vehicles and personnel.
4. Individuals should not return to an evacuated building unless told to do so by Security or the Emergency Director.
5. Individuals should assist persons with disabilities in exiting the building. Elevators are reserved for disabled persons

Campus Evacuation

1. A uniformed Security Guard, the Emergency Director, or an Emergency Resource Team member will announce evacuation of all or part of the campus grounds.
2. All persons (students and staff) are to immediately vacate the campus, or in the case of a partial evacuation relocate to another part of the campus grounds as directed.

Lockdown

1. Clear the halls
2. Report to the nearest classroom/office
3. Assist those needing special assistance
4. Ensure classroom/office doors are closed and locked
5. Turn off lights
6. Stay away from doors and windows (out of the line of sight)
7. BE QUIET and follow instructor's directions
8. Silence cell phones
9. Wait for the "All Clear" before leaving