

Technical College of the Lowcountry  
921 Ribaut Road  
Beaufort, SC 29901

Dr. Kenneth Flick  
Business Technologies Division  
Building 14, Room 125  
Phone: 843.525.8238  
[kflick@tcl.edu](mailto:kflick@tcl.edu)



**CPT 257  
OPERATING SYSTEMS**

**COURSE DESCRIPTION**

This course examines the theory of operating systems and how operating systems theory is implemented in current operating systems. 3 Cr. (3 lect/pres, 0 lab, 0 other)

**COURSE FOCUS**

This course is designed to provide the student with basic knowledge of operating systems theory.

**TEXT AND REFERENCES**

*Introducing Windows 10 For the IT Professional Technical Overview*, Bott, Ed 2016. Microsoft Press ISBN: 978-0-7356-9697-6 (This is a free e-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. understand windows 10 desktop
2. customize the start screen
3. manage the user experience
4. understand installation methods
5. install windows 10
6. choose the appropriate deployment strategy
7. access windows 10 compatibility
8. understand Microsoft deployment kit
9. list features of windows 10 pro
10. list features of windows 10 enterprise
11. investigate data compression
12. control various deadlocks
13. measure various cases of deadlock

14. use of dynamic partitions
15. analyze operating system development
16. illustrate types of operating systems
17. include machine hardware history
18. apply dynamic partitions
19. implement access methods
20. secure windows 10
21. learn new security capabilities
22. learn to secure the login process
23. learn to block malware
24. setup bit-locker drive encryption
25. secure data
26. run windows defender
27. access windows explorer 11
28. evaluate an operating system
29. monitor password construction
30. measure system performance
31. distribute applications within the enterprise
32. use windows recovery environment
33. troubleshoot windows 10
34. network windows 10
35. setup mobile broadband support
36. experience virtualization
37. develop virtualization options
38. setup client hyper-v
39. personalize windows 10
40. research file management
41. incorporate process management
42. key to network topologies
43. arrange storage allocation
44. define measure system performance
45. implement Windows Operating System goals
46. explore the Linux Operating System
47. evaluate security roles in operating systems
48. evaluate management of network functions
49. discuss software design issues
50. elaborate on direct access storage devices

## **STUDENT CONTRIBUTION**

Each student will spend approximately 2.5-5 hours per week preparing for class and completing assignments to turn in weekly.

Each week students will turn in assignments as specified on Blackboard. In addition, chapter tests are to be completed as assigned. Students will also complete a final exam/project to demonstrate their knowledge of the material.

Student Attendance Policy: See student handbook within the TCL Catalog.

## **COURSE EVALUATION**

Final grades for this course are calculated as follows:

Tests:	50%
Assignments:	40%
Attendance:	10%

## **COURSE SCHEDULE**

The class meets for 4 lecture/presentation hours per week. Course content will be taught in the order that the content goals are presented in the syllabus. The schedule for this course is provided on Blackboard.

Approved by: *Kenneth Flick* Developed/Revised: 1/8/2016  
Ken Flick, Division Dean for Business/Industrial Technology

## 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, 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](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)

## 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

Developed/Revised: May 2015