CPT 212
VISUAL BASIC PROGRAMMING

COURSE DESCRIPTION
This course focuses on Windows programming using visual Basic to create graphical user interfaces. The course examines forms, controls, graphical controls, loops, control arrays, database and traditional file processing, and application class scheduling.

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

COURSE FOCUS
This course is designed to provide the student with basic knowledge of how to use Visual Basic Studio.

TEXT AND REFERENCES

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

1. Starting and closing programs; shutting down Windows
2. Resizing, moving, and scrolling Windows
3. Become familiar with Visual Basic terminology
4. Display the toolbox
5. View object properties
6. Name a Windows form object
7. Add objects to forms
8. Use proper naming conventions to apply names to objects on forms
9. Gather and analyze program requirements
10. Design a user interface
11. Use properties to format objects
12. Import images into a form
13. Run a program
14. Use IntelliSense to enter Visual Basic code for event handling
15. Enter comments in program statements
16. Correct errors in code
17. Include Accept and Cancel buttons in form properties
18. Apply appropriate data entry and data types
19. Distinguish between variables and constants
20. Properly use option strict on command
21. Create clear procedures and focus procedures
22. Display numeric output data
23. Create smart device applications
24. Display message boxes
25. Correctly apply string concatenation
26. Create If...Then Statements
27. Create If...Then...Else Statements
28. Create If...Then...ElseIf Statements
29. Create Nested If Statements
30. Use logical operators in code
31. Validate data
32. Use loops to perform repetitive tasks
33. Use data tip with breakpoints in code

STUDENT CONTRIBUTION

Each student will spend 2.5 hours per week in class and another 2-3 hours 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 midterm and final exam/project to demonstrate their knowledge of the material.

COURSE EVALUATION

Final grades for this course are calculated as follows:
- Tests: 20%
- Assignments: 40%
- Midterm Exam/Project: 20%
- Final Exam/Project: 20%

COURSE SCHEDULE

The schedule for this course is provided on Blackboard.
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 withdrawal 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](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 TextAlert at TCL" and fill out the form or go to [www.tcl.edu/textalert.asp](http://www.tcl.edu/textalert.asp)