



TECHNICAL COLLEGE OF THE LOWCOUNTRY

IST 226 INTERNET PROGRAMMING

COURSE DESCRIPTION

This course covers designing Web pages and applications for personal/business use, writing required HTML, CSS, and JavaScript code. Prerequisites: ENG 100, MAT 101, RDG 100 3 Cr.

COURSE FOCUS

This course is designed to provide the student with knowledge for basic design and development of Web pages.

TEXT AND REFERENCES

No Purchase Necessary. Beginning Fall 2021, TCL implemented a new textbook model called First Day Complete (FDC). With FDC, a per credit hour book fee was added to your tuition at the time of registration. Please check your *new* TCL email account where you have been sent a link to reserve your books with the TCL College Store. Refer to this link for all details concerning FDC

<https://www.tcl.edu/first-day-complete-textbook-program/>

COURSE GOALS

During the course, the student will learn to do the following:

- Explore the history of the Internet, the Web, and HTML
- Compare the different versions of HTML
- Study the syntax of HTML tags and attributes
- Define a Web page head, body, and title
- Work with the HTML5 structural elements
- Mark page headings, paragraphs, block quotes, and addresses
- Create unordered and ordered lists
- Apply an external style sheet to a Web page
- Run a JavaScript program
- Mark text-level elements including strong and emphasized text
- Insert inline images and line breaks
- Insert special characters from extended character sets
- Explore how to storyboard a Web site
- Create navigation lists
- Create links between documents in a Web site
- Understand absolute and relative folder paths
- Set a base path

- Mark a location with the id attribute
- Create a link to an id
- Mark an image as a link
- Create an image map
- Understand URLs
- Link to a resource on the Web
- Link to an e-mail address
- Work with hypertext attributes
- Work with metadata
- Explore the history and theory of CSS
- Define a style rule
- Study style precedence and inheritance
- Apply color using CSS
- Explore CSS3 color extensions
- Use contextual selectors
- Work with attribute selectors
- Apply text and font styles
- Install a Web font
- Define list styles
- Use pseudo-classes and pseudo-elements
- Create a rollover effect
- Set display properties
- Create a reset style sheet
- Define a background image and its properties
- Use browser extension styles
- Explore fixed, fluid, and elastic layouts
- Float elements in a Web page
- Set margin and padding spaces
- Format an element border
- Create rounded corners
- Display an element outline
- Explore absolute and relative positioning
- Work with overflow content
- Explore clipped objects
- Stack objects in a page
- Explore the structure of a Web table
- Create headings and cells in a table
- Create cells that span multiple rows and columns
- Add a caption to a table Create row and column groups
- Add a summary to a table
- Format a table using HTML attributes
- Format a table using CSS styles
- Collapse table borders
- Display page elements in tabular form
- Create a multi-column layout
- Understand Web forms and their interaction with Web servers
- Create form elements, field sets, and legends
- Create input boxes and form labels
- Create selection lists, option buttons, text area boxes, and check boxes

- Apply styles to Web forms
- Explore HTML5 data types
- Create spinners and range sliders
- Create form buttons
- Validate form data
- Learn about sound file formats and properties
- Embed sound clip into a Web page
- Learn about video file formats and properties
- Embed a video clip into a Web page
- Embed YouTube videos
- Explore the history of Java and embed a Java applet and other Objects
- Create text and box shadows
- Enhance Web sites with advanced CSS: shadows, filters, animation, linear gradients, border image, and page object opacity
- Apply style to a media device
- Create and apply print styles
- Define the visual viewport
- Create a media query
- Create styles for mobile devices in portrait and landscape mode
- Learn the history of JavaScript
- Create a script element
- Write text to a Web page with JavaScript
- Understand basic JavaScript syntax and work with JavaScript variables, data types, functions
- Add comments to JavaScript code
- Learn about basic JavaScript debugging techniques and tools

STUDENT CONTRIBUTIONS

Each student will spend 1.25 to 2.5 hours per week in class (or 2.5 hours online for online students) and possibly another 2 to 3 hours preparing for class and completing assignments to turn in weekly.

Each week students will turn in assignments as specified on Blackboard. Students will also complete assessments in the form of quizzes and exams to demonstrate knowledge of the material.

COURSE EVALUATION

Final grades for this course are calculated as follows:

Intro assignment/Registration w/Cengage/Pre-Course assignment:	10%
Quick Check Quizzes:	20%
Coding Challenges/Case Problems/Review Assignments:	20%
Midterm:	25%
Final:	25%

COURSE SCHEDULE

The schedule for this course will be provided as a Class Calendar document upon completion of the first day of in-class instruction. This Class Calendar document will provide due dates for assignments and assessments.

Instructions for assignments will indicate what is to occur with each assignment and when each assignment is due. Similarly, material to be covered on assessments will be identified during class or via 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.

MASK MANDATE

Until further notice, there is a mask mandate in place indoors at TCL. Failure to adhere to the mask requirement will result in the following:

- First Offense: Verbal Warning
- Second Offense: You will be asked to leave class with an absence for that day
- Third Offense: You will be asked to leave class and must meet with Associate Vice President Rodney Adams in Building 2 Room 203 prior to returning to class

ATTENDANCE

1. 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.
2. 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.
3. 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.
4. Reinstatement requires the signature of the division dean.
 - a. 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.
 - b. 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

- c. 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.
- d. 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.
- e. 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 will also receive text alerts and are highly encouraged to verify and/or update contact information at <https://www.tcl.edu/campus-life/campus-security/text-alert/>.

EMERGENCY TEXT ALERT

Students are automatically opted in to the Emergency Text Message Alert System based on the information on file for you. Students will receive immediate notification of emergency events via text messaging on cell phones. If you would like to verify and/or update your contact information, go to <https://www.tcl.edu/campus-life/campus-security/text-alert/>.

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 video at (<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