GREENVILLE TECHNICAL COLLEGE

Business and Technology Division
Computer Technology
Course Syllabus
Intermediate Website Design   IST 226

Credit/Contact Hours:
3.0

Prerequisite:
Placement into MAT 032 and RDG 100 or higher. Computer Technology students must obtain a minimum grade of "C" in all CPT and IST courses.

Co-requisite:
None

Course Description:

This course is a study of server-side (CGI; Dynamic HTML) and client-side (JavaScript) dynamic web design, including the incorporation of database applications and content into WebPages.

Purpose of Course:
1. To develop well-disciplined, structured coding habits using HTML and other important web programming languages.
2. To model coding to the emerging HTML standard.

3. To troubleshoot site problems such as missing images and broken links.
4. To incorporate dynamic elements into website projects using original (not editor-produced) code.

Required Texts:
1. Blended *HTML and CSS Fundamentals*; 3rd Edition; Henry Bojack and Sharon Scollard; Cengage Learning; *ISBN: 978-1-133-52610-0*
2. NOTE: Students in traditional classes must access Blackboard for course related information. Students in hybrid and online classes will access their online content through Blackboard.

Additional Materials:
Internet access

Notepad or other text software that does not insert formatting code

Course Outcomes:
Students who successfully complete this course will have demonstrated the skills required to accomplish the following objectives with a minimum competence level of 70 percent.

1. Generate and verify HTML code to the HTML standard.
2. Apply HTML tags to produce an HTML template to the HTML standard.
3. Produce functioning reference codes to support page link hierarchies within an existing website.
4. Troubleshoot HTML code for path and filename errors that cause missing links to graphics or HTML webpage files.
5. Produce ordered and unordered, nested, and blocked lists using HTML tags.
6. Control format including use of physical and logical styles.
7. Incorporate appropriately-sized image and multimedia files using source and alternative text tags.
8. Control screen layout using table tags and frames.
9. Use CSS effectively for format, layout and printing.
10. Code forms to handle and return user input via e-mail or to process form data using Common Gateway Interface (CGI) procedures.

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The objectives of the IST 226 course are intended to meet the CPT program level student learning outcomes.

Program Student Learning Outcomes:

Upon successful completion of the Computer Technology Degree students will be able to:

1. Install computer and network hardware.

2. Install computer operating systems and application software.

3. Design, create and test computer programming solutions.

4. Demonstrate the ability to take initiative, assume responsibility, and work under pressure with minimum supervision by successfully completing "hands-on" computer assignments.

5. Analyze, troubleshoot, and correct computer related technical problems.

Revised August 2012

Greenville Technical College Core Competencies:

Communication Core Competency: Students will demonstrate effective written and oral communication skills to convey information, ideas, or opinions.

- Written Communication: Students will demonstrate effective written communication skills to convey information, ideas, or opinions.
- Oral Communication: Students will demonstrate effective oral communication skills to convey information, ideas, or opinions.

Critical Thinking Core Competency: Students will demonstrate effective reasoning, problem solving, or quantitative skills to develop an opinion or conclusion.

- Critical Reasoning: Students will employ inquiry, analysis, and synthesis of information to formulate and/or evaluate an opinion or conclusion.
- Problem Reasoning: Students will design and formulate a strategy to answer a question or achieve a desired goal.
- Quantitative Reasoning: Students will be able to analyze numerical information or observable facts resulting in informed conclusions.

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Information Literacy Core Competency: Students will be able to locate, evaluate, and use information effectively from diverse sources.

Professionalism Core Competency: Students will demonstrate conduct and etiquette appropriate to the community and chosen career.

- Professionalism: Students will display professional conduct and work habits.
- Teamwork: Students will collaborate with others to accomplish a shared goal.

Instructional Agreement:

This syllabus is an agreement between the student and instructor concerning course objectives, course content, grading and other policies and procedures particular to the course as well as any posted program, departmental, and divisional policies. It is also the student's responsibility to become familiar with the Student Handbook/College Catalog found in the Student Resource area of Blackboard.

Grading Scale:
Grades for this course will be calculated as follows:

Forty (40) percent of the final grade will be based on the average of the unit projects.

Points will be deducted for the following on all assignments:

- Web pages that do not display and/or link properly (broken links, missing graphics)
- Errors in grammar, spelling, punctuation, capitalization or word use in papers or on publishable web pages
- Lateness

Twenty (30) percent of the final grade will be based on the average of unit tests.

Ten (10) percent of the final grade will be based on the grade for bulletin board participation.

Twenty (20) percent of the final grade will be based on the grade for the Final Exam project. This project will take the place of the final exam.

All assignments (i.e., labs, projects, research papers, etc.) for this course must be completed and submitted to the instructor by the due date established in order to receive credit for the assignment.

Final letter grades will be issued as follows:

A	=	90 - 100
B	=	80 - 89
C	=	70 - 79
D	=	60 - 69
F	=	0 - 59

Course Policies:

Disabilities Information

Students with disabilities, including those who were served in Special Education (resource or tutorial), should contact Student Disability Services (SDS) to discuss their need for services and accommodations. The main SDS office is located on the Barton Campus in the Student Center Building 105, office 113. Staff can be reached by phone at 864 250-8202 or via email to DisabilityServices@gvltec.edu . Appointments are available at all satellite campus locations. Please check the GTC website for more information concerning Student Disability Services: http://gvltec.edu/disability-services/

Efforts have been made to ensure all materials presented in an electronic format are accessible for students with disabilities and the college is committed to this obligation. However, if you experience any difficulty accessing these materials please notify your instructor immediately so a solution can be provided. You may also contact Student Disability Services directly at 864-250-8202 or by email at DisabilityServices@gvltec.edu.

Students who need a PDF reader for accessibility of course documents presented in PDF format may download a free reader at https://acrobat.adobe.com/us/en/products/pdf-reader.htm

PLAN OF INSTRUCTION:

  TEXT

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<u>CHAPTER</u> <u>MAJOR TOPICS</u>

Tutorial 1:   Using HTML to Create Web Pages
Tutorial 2:   Creating Links
Tutorial 3:   Introducing Cascading Style Sheets
Tutorial 4:   Formatting Text and Links
Tutorial 5:   Working with the Box Model
Tutorial 6:   Creating Fixed-Width Layouts
Tutorial 7:   Creating Liquid Layouts
Tutorial 8:   Creating Data Tables
Tutorial 9:   Creating Forms

*NOTE: Students enrolled in the online class will have a Class
        Calendar/Outline to follow.*

*The instructor reserves the right to modify the Plan of Instruction by
changing the sequence of text material or testing content.*