

Computer Programming Department
Business/Public Service Division
GREENVILLE TECHNICAL COLLEGE

COURSE SYLLABUS

Course Title: Intermediate Website Design
Course Number: IST 237

Lecture hours per week: 3.0

Lab/Clinic Hours:

Semester credit hours: 3.0

Pre-requisite: IST 225 or CPT 113 (CPT degree majors)

Catalog 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. Note: Course taught via College Online only.

Purpose of the course:

1. To develop well-disciplined, structured coding habits using HTML and other important web programming languages.
2. To model coding to the emerging XHTML 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 text(s) or other materials:

1. Blended HTML, XHTML, and CSS; Second Edition; Henry Bojack; Cengage Learning; ISBN: 978-0-538-74633-5
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.

COLLEGE-WIDE STUDENT LEARNING OUTCOMES

1. Communication – Students will demonstrate the ability to use active reading and listening skills and to produce effective written and oral communication for varying audiences.
2. Information Technology and Technological Literacy – Students will demonstrate competency in using computer technology within a field of study.
3. Critical Thinking/Reasoning – Students will demonstrate the ability to apply the scientific method, mathematical processes, and research skills to analyze and solve problems/issues by using reflection and reasoning to justify conclusions.
4. Professional and Personal Responsibility – Students will demonstrate the ability to exhibit conduct, attitudes, and etiquette appropriate to the student's community and chosen career. Students will

demonstrate the ability to manage time, to use effective interpersonal skills, and to display responsible behavior.

5. Diversity – Students will demonstrate the ability to recognize diversity and to demonstrate respectful conduct and attitudes toward all. Students will demonstrate the ability to explain how global issues impact life, work, and opportunities.

Approved March 26, 2009

COMPUTER PROGRAMMING PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of the CPT/Programming program, the graduate will be able to:

1. Students will be able to analyze, design, develop, and document solutions that will satisfy the information needs of business users using established design methodologies and standards.
2. Students will be able to design, create, test, and document logical programming solutions to prescribed specifications following established standards and using current development environments and languages for application development and database management.
3. Students will be able to demonstrate the knowledge and ability to install and maintain microcomputer hardware and operating system software.
4. Students will be able to demonstrate the use of a minimum of three business application software packages.
5. Students will be able to demonstrate fundamental team building, project management, and presentation skills by participating in team projects that include team goals and values, a development methodology for documentation and coding, group presentations, and exposure to topics such as diversity, time management, and goal setting.
6. Students will be able to demonstrate the ability to take initiative, assume responsibility, and work under pressure with minimum supervision by successfully completing "hands-on" computer lab assignments.

IST 237 COURSE OUTCOMES

Students who successfully complete this course will have demonstrated the skills necessary to accomplish the following objectives with a minimum competency of 70 percent.

1. Generate and verify HTML code to the XHTML standard.
2. Apply HTML tags to produce an HTML template to the XHTML 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.

The objectives of the IST 237 course are intended to meet the CPT/Programming program competencies numbered 2 and 6 above.

IST 237 – MAIN TOPICS

UNIT 1: (Chapter 1) Using HTML tags to Create Web Pages

1. Understanding the Internet and the Web
2. Creating a Web Page with Basic HTML Tags
3. Formatting Text on a Web Page
4. Using Special Formatting Codes
5. Using Images on a Web Page
6. Creating Horizontal Rules
7. Creating Unordered and Ordered Lists
8. Working with Search Engines

TEST and Web Site PROJECT # 1 – UNIT I

UNIT 2: (Chapter 2) Using Styles to Format Web Pages

1. Introducing Cascading Style Sheets (CSS)
2. Examining CSS Styles and Rules
3. Using the Three Types of CSS Styles
4. Changing the Font
5. Using Color on a Web Page
6. Creating and Applying an Inline Style

TEST and Web Site PROJECT #2 – UNIT II

UNIT 3: (Chapter 3) Using CSS to Format Multiple Pages

1. Creating and Using Classes
2. Creating External Styles
3. Linking an HTML File to an External Style Sheet
4. Creating the External Style Sheet Code
5. Using the Text Properties
6. Creating Pseudo-elements
7. Using Filters
8. Working with an Independent Class
9. Working with an ID Selector

UNIT 3 TEST and Web Site PROJECT #3 – UNIT III

UNIT 4: (Chapter 4) Exploring Graphic Elements and Images

1. Including Images, Borders and Text
2. Enhancing the Appearance of Horizontal Rules
3. Using the Box Model
4. Using the Padding Properties
5. Using the Margin Properties
6. Using the Border Properties
7. Positioning Images

8. Using the float Property
9. Enhancing the Appearance of Lists
10. Using Definition Lists
11. Using the Background Properties
12. Resizing the Browser Window

Unit 4 TEST and Web Site PROJECT #4 – UNIT IV

UNIT 5: (Chapter 5) Using CSS for Layout and Printing

1. Sizing and Positioning Boxes
2. Creating the Banner
3. Using the overflow Property
4. Enhancing the Appearance of the Sidebar
5. Styling HTML Elements within a Box
6. Using the Positioning Properties
7. Creating the Footer Box
8. Using Print Styles

UNIT 6: (Chapter 6, Session 6.1 and 6.2) Using Links on a Web Page

1. Creating Links using Protocols
2. Using the Start Anchor Tag
3. Creating links on the same page
4. Creating links to a different page
5. Using Placeholders
6. Planning the Page Layout
7. Using Pseudo-Class Selectors
8. Using images with links

Web Site PROJECT #6 – UNIT VI

UNIT 7: (Chapter 6, Session 6.3) Organizing Files at Your Web Site

1. Creating Parent and Child Folders
2. Moving Down 1 Level in the Directory Structure
3. Moving Up 1 Level in the Directory Structure
4. Moving Down 2 Levels
5. Moving Up 2 Levels
6. Creating Image Maps

Unit 5 - 7 TEST

UNIT 8: (Chapter 7) Creating Tables

1. Understanding the Limitations of HTML Tables
2. Creating a Table to Display and Organize Data
3. Using Tables for Layout
4. Using CSS with Tables
5. Setting the Style for the Nested Data Table
6. Striping Rows
7. Changing the Appearance of Layout Table Cells

8. Changing the Appearance of the Header Row
9. Positioning the Entire Table
10. Avoiding Deprecated Attributes

Web Site PROJECT #8 – UNIT VIII

UNIT 9: (Chapter 8) Creating Forms

1. Creating an HTML Form
2. Creating Input Fields
3. Creating Text Boxes
4. Creating Radio Buttons
5. Creating Check Boxes
6. Creating List and Drop-down List Boxes
7. Using select and option tags
8. Using size and multiple Attributes
9. Creating Option Groups
10. Creating a Text Area
11. Accepting or Rejecting Data
12. Organizing Form Controls

Web Site PROJECT #9– UNIT 9

UNIT 10: (Chapter 9) Creating Frames

1. Using Frames on a Web Page
2. Creating Rows and Columns in a Frameset Document
3. Opening a Document in a Specific Frame
4. Using the target Attribute
5. Using Magic Targets
6. Using the base Tag
7. Using the scrolling Attribute
8. Using the noresize Attribute
9. Using the border Attribute
10. Using marginheight and marginwidth Attributes
11. Inline Frames
12. Using the meta Tag to Create a Slide Show

FINAL PROJECT

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

IST 237 – COURSE SPECIFIC REQUIREMENTS

Internet access

Notepad or other text software that does not insert formatting code

IST 237 – EVALUATION AND GRADING INFORMATION

GRADING POLICY

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	points
B	=	80 - 89	points
C	=	70 - 79	points
D	=	60 - 69	points
F	=	0 - 59	points

READ THIS SYLLABUS CAREFULLY

You should read this syllabus carefully and ask your instructor about *any* aspects that you do not understand. The syllabus is an agreement between you and your instructor concerning course objectives, course content, grading, and other policies and procedures particular to this course. The above information is specific to the course. Three additional documents are provided as attachments and *are considered a part of this syllabus*:

Attachment 1:

Each instructor will provide a supplement to this syllabus. The supplement will include: a week-by-week plan of instruction based on the section in which you are enrolled; your instructor's name, office hours and/or office location; and your instructor's contact information and recommended best methods to contact your instructor.

Attachment 2:

The Department responsible for developing and teaching has policies and procedures in place to assure quality instruction for all students. These are attached as "Departmental Policies and Procedures."

Attachment 3:

Please note that it is your responsibility to read the current Student Handbook included in Greenville Technical College's Catalog. (See website.) The Student Handbook addresses specific academic and student conduct policies and procedures. Excerpts from the Student Handbook representing the policies and procedures most often referred to in working with students are provided for your convenience as "Attachment 3."

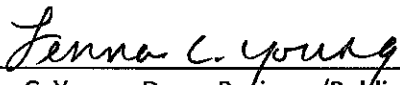
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13 Dec 10
Date

This syllabus will remain in effect until revised or reviewed no later than August 2011.