

CSIT 121

Web Standards

3 Credits

Community College of Baltimore County
Common Course Outline

Description

CSIT 121 – Web Standards: introduces common Web Standards as recommended by the World Wide Web Consortium. Topics include HTML, CSS, XML, and WAI (Web Accessibility Initiative.) The course emphasizes the important role standards play in Web Site development. Students learn how to use these standards to create and structurally mark-up web pages.

Co-requisites: CSIT 101 or CSIT 111 or consent of the program coordinator

Overall Course Objectives

Upon completion of this course, students will be able to:

1. explain the relationship among HTML, CSS, JavaScript, XML and other common web standards;
2. develop standards-compliant web pages using HTML for structure and CSS for presentation;
3. list HTML syntax rules;
4. use a text and/or web authoring editor to mark-up an HTML document;
5. define CSS and describe the CSS syntax and style sheet rules, including levels, grouping and selectors;
6. define the CSS box model and explain how it impacts CSS development;
7. code CSS styles to define properties for an HTML document including background, text and positioning of elements;
8. define XML and list ways it can be used;
9. structure content using XML and display the document in a browser;
10. define JavaScript and explain the relationships between HTML and CSS;
11. integrate JavaScript into web pages to add basic interactivity and dynamic behavior;
12. publish web documents on a web server for successful distribution among common web browsers; and
13. explain other common web standards initiatives including WAI.

Major Topics

- I. Web Development Foundations
 - a. File Management
 - b. Internet History
 - c. Publishing Web Sites
- II. HTML Basics
- III. CSS Basics
- IV. Visual and Media Elements

The Common Course Outline (CCO) determines the essential nature of each course.
For more information, see your professor's syllabus.

- V. Layout and Responsiveness
- VI. UI/UX
- VII. Tables and Forms
 - a. Accessibility considerations
- VIII. Interactivity and Animation
 - a. JavaScript
- IX. Other Web Standards
 - a. XML
 - b. WCAG
- X. Special Topics
 - a. Current Trends in Web Dev
 - b. Content Management Systems
 - c. JavaScript Frameworks

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- Two exams
- Five Web Page Development Projects
- A Final Web Site Project

Writing: Students are required to utilize appropriate academic resources. The individual faculty member will determine specific writing assignments, such as developing website content and concepts for analyzing web standards best practices.

Other Course Information

This course is taught in a computerized environment.

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline.

This is a core program requirement course in the Information Technology Degree Program.

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