



# UAWEB300: Web Design with XHTML/CSS

07.29.08

**Course Title:** UAWEB300: Web Design with XHTML/CSS

**Course Length:** 5 days or 10 evenings

**Instructional Methodology:** Hands-on, instructor-led with lab exercises

**Course Description:** This course will cover the essential skills needed to create Web sites, with a focus on using XHTML and Cascading Style Sheets (CSS). Students will learn how to hand-code Web pages by writing XHTML using a text editor. From there, students will learn to hand-code CSS to format and lay out the elements of Web pages, using the latest tricks and technologies. Students will become familiar with related topics such as JavaScript, server management, and images. Alternative methods of creating Web pages will also be discussed to provide students with a well-rounded skill set for the real world. This course is a prerequisite for Advanced Web Design with Cascading Style Sheets (CSS).

## Course Outline

### **XHTML**

- Creating a Web Page
- Structuring Content
- Linking Web Pages
- Formatting Text
- Creating Tables
- Creating a Page Layout Using Tables
- Creating Links
- Separating Structure from Presentation
- Creating Forms
- Adding Dynamic Content

### **Cascading Style Sheets**

- Introduction to Cascading Style Sheets (CSS)
- Creating Rules
- Conflicting Rules: The Cascade
- Text and Font Properties
- Applying Colors and Backgrounds
- The Box Model
- CSS Positioning
- Design and Usage Techniques

### **JavaScript**

- JavaScript: The What, Where, and How
- The Basics of JavaScript
- Interactive Images

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520.626.5091



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## Course Objectives:

- Create, modify, and test Web pages
- Position content on a Web page by using both CSS and tables
- Create hyperlinks used to navigate
- Separate the stylistic elements of a Web page from its structure and apply Cascading Style Sheets (CSS) formatting and layout to those elements
- Create Web-based forms
- Add basic dynamic content to a Web page
- Identify style sheets of various types, understand the advantages and risks of designing with style sheets, and apply correct style sheet syntax
- Apply CLASS and ID selectors to customize styles, use the DIV and SPAN elements to use styles in XHTML, learn to use external, embedded and local style sheets
- Understand the rules of the cascade, and the box model as defined by the World Wide Web Consortium
- Style text with typographical properties, including aligning and indenting text, controlling the spacing of lines and characters modifying other text characteristics; declare specific and generic fonts size fonts with various methods; and create variations of font styles
- Apply text and background colors with a variety of methods, and control background tiling
- and position with styles
- Control the margins, borders, and padding of page elements, and create floating elements and list styles
- Apply position properties to control page layout by absolute and relative coordinates, and control the width, overflow, and layering of page elements
- Recognize the types of enhancements JavaScript can make to Web pages to make them more engaging to the Web user
- Identify how and where JavaScript can be placed in a Web page
- Describe the basic concepts of the JavaScript language: objects, event handling, and functions
- Write the JavaScript code to swap images that respond to a mouse click
- Learn about the obsolete methods for laying out and formatting web pages, so students will know what to do if hired to edit an existing web site that uses these methods, but not to recreate the whole site from scratch using modern methods
- Discuss the bugs in various browsers and learn the basics of how to work around them so that viewers across multiple platforms have a similar experience