

# Online Web & Mobile Design Course

200 Hours / 6 Months

## Course Description

### Advanced HTML5 & CSS3

Advanced HTML5 And CSS3 Specialist is the first course in the CIW Web And Mobile Design series. This course teaches the essentials of HTML5, Cascading Style Sheets (CSS) and JavaScript. These technologies, sometimes known as the "HTML5 Family" or the "Web development trifecta," can be used together to create Web pages that easily adapt to display on smartphones, tablets, gaming devices and smart TVs, as well as to traditional desktop computers.

### User Interface Designer

User Interface Designer is the second course in the CIW Web And Mobile Design series. This course introduces strategies and tactics necessary to design user interfaces, with particular emphasis on creating user interfaces for mobile devices. It focuses on teaching specific development techniques and strategies.

This course teaches how information obtained from the client, sales, and marketing to design and develop compelling visual experience Web sites for multiple platforms, including mobile, tablet, and desktop. You will learn more about wireframes, color schemes, tones, design templates, formatting, and typography. This course builds upon your abilities to implement user analysis techniques, usability concepts, usability testing procedures and the vital role of testing to publish and maintain a Web site.

You will also learn branding considerations and responsive design implementation in relation to the user interface design of Web sites.

## Prerequisites

To become a successful web designer and to be successful in this course, it's important you have a strong understanding of HTML5 and CSS3 coding. Our [Site Development Associate course](#) is a fundamentals course that teaches you essential Web page development skills. You'll learn to develop Web sites using Hypertext Markup Language version 5 (HTML5) and Cascading Style Sheets (CSS). You will learn to write code manually, as well as use graphical user interface authoring tools. You will also work with images, create hyperlinks, and add tables, forms, video and audio to your Web pages. If you want the knowledge and skills to be successful in this course, we recommend you take this course. NOTE: This course can be taken on its own or in conjunction with this online Web & Mobile Design course.

## What You Will Learn

- Using the HTML5 structure elements
- Embed video and audio
- Develop cross-browser user-input forms
- Position and format content
- Create effects such as transformations, transitions and animation
- Design and develop compelling visual experience Web sites for multiple platforms
- Wireframes, color schemes, tones, design templates, formatting, and typography
- User analysis techniques, usability concepts, usability testing procedures

## Hardware Requirements

- This course must be taken on either a PC.

## Software Requirements

- PC: Windows 8.1 or newer.
- Browser: The latest version of Google Chrome or Mozilla Firefox are preferred. Microsoft Edge and Safari are also compatible.
- Adobe Acrobat Reader. [Click here](#) to download.
- Software must be installed and fully operational before the course begins.

## Other

- Email capabilities and access to a personal email account.

## Course Outline

MODULE	TOPICS COVERED	
1: HTML5 Essentials	<ul style="list-style-type: none"> <li>• Introduction to HTML5 and CSS3</li> <li>• Migration to Mobile Devices</li> <li>• The Web Development Trifecta</li> <li>• The Evolution of HTML5</li> <li>• HTML5 Structure Elements</li> </ul>	<ul style="list-style-type: none"> <li>• Validating HTML5 Code</li> <li>• The &lt;video&gt; Element</li> <li>• The &lt;audio&gt; Element</li> <li>• HTML5 APIs</li> </ul>
2: Using Cascading Style Sheets (CSS) Technology	<ul style="list-style-type: none"> <li>• Cascading Style Sheets (CSS)</li> <li>• Style Guides</li> <li>• CSS and HTML</li> <li>• CSS Terms and Syntax</li> </ul>	<ul style="list-style-type: none"> <li>• Applying CSS Styles</li> <li>• Page Layout with CSS</li> <li>• CSS Positioning Schemes</li> <li>• The CSS Box Model</li> </ul>
3: Introduction to CSS Version 3 (CSS3)	<ul style="list-style-type: none"> <li>• Introduction to CSS3</li> <li>• CSS3 Selectors and Properties</li> <li>• CSS3 Background Properties</li> </ul>	<ul style="list-style-type: none"> <li>• CSS3 Border Properties</li> <li>• CSS3 Font Properties</li> <li>• CSS3 Text Effects</li> </ul>
4: Using Advanced CSS3 Techniques	<ul style="list-style-type: none"> <li>• Introduction to Advanced CSS3 Techniques</li> <li>• CSS3 2D and 3D Transformations</li> <li>• CSS3 Transitions</li> </ul>	<ul style="list-style-type: none"> <li>• CSS3 Animations</li> <li>• CSS3 User Interfaces</li> <li>• Creating Menus and Buttons with CSS3</li> </ul>
5: Introduction to JavaScript	<ul style="list-style-type: none"> <li>• HTML5 and JavaScript</li> <li>• Introduction to Scripting</li> <li>• JavaScript Characteristics</li> <li>• JavaScript vs. Other Languages</li> <li>• Embedding JavaScript into HTML5 Documents</li> </ul>	<ul style="list-style-type: none"> <li>• JavaScript and Common Programming Concepts</li> <li>• Objects, Properties and Methods</li> <li>• Variables</li> <li>• Expressions and Operators</li> </ul>
6: JavaScript Events, Functions and Methods	<ul style="list-style-type: none"> <li>• User Events and JavaScript Event Handlers</li> <li>• Introduction to JavaScript Functions</li> <li>• Defining a Function</li> </ul>	<ul style="list-style-type: none"> <li>• Calling a Function</li> <li>• Methods as Functions</li> <li>• Errors in JavaScript</li> </ul>
7: Using HTML5 APIs	<ul style="list-style-type: none"> <li>• Introduction to HTML5 APIs</li> <li>• Document Object Model (DOM)</li> <li>• Common HTML5 APIs</li> <li>• The Canvas API</li> <li>• The Offline AppCache API</li> <li>• The Geolocation API</li> </ul>	<ul style="list-style-type: none"> <li>• The Drag-and-Drop API</li> <li>• The File API</li> <li>• The History API</li> <li>• Retrieving Data with XMLHttpRequest</li> <li>• Manipulating Data with jQuery</li> </ul>
8: Developing HTML5 Forms	<ul style="list-style-type: none"> <li>• Introduction to HTML5 Forms</li> <li>• Cross-Browser Compatible HTML5 Forms</li> <li>• HTML5 Form Input Types</li> </ul>	<ul style="list-style-type: none"> <li>• New Form Elements in HTML5</li> <li>• HTML5 Global Attributes for Form Elements</li> </ul>
9: Completing, Submitting and Validating User Input Forms	<ul style="list-style-type: none"> <li>• Improving Forms with HTML5</li> <li>• HTML5 Attributes for the &lt;form&gt; Element</li> <li>• HTML5 Attributes for the &lt;input&gt; Element</li> <li>• Submitting Forms with the &lt;button&gt; Element</li> </ul>	<ul style="list-style-type: none"> <li>• Concepts and Techniques for Validating User Input</li> <li>• Validating User Input with HTML5 Attributes</li> <li>• Validating User Input with JavaScript</li> </ul>
10: Designing for Mobile Devices	<ul style="list-style-type: none"> <li>• Introduction to Mobile Design</li> <li>• Mobile Web Sites vs. Mobile Apps</li> <li>• Designing Web Sites for Mobile Devices</li> <li>• Page Layout for Mobile Devices</li> </ul>	<ul style="list-style-type: none"> <li>• Navigation and Hyperlinks for Mobile Devices</li> <li>• Images and Mobile Design</li> <li>• Validating and Testing Mobile Web Pages</li> <li>• Responsive Web Design</li> </ul>

<b>11: Introduction to User Interface Design</b>	<ul style="list-style-type: none"> <li>• What is User Interface Design?</li> <li>• Evolution of Web User Interfaces</li> <li>• Current Trends in Web Design</li> <li>• Web Design Team Roles and Responsibilities</li> </ul>	<ul style="list-style-type: none"> <li>• Web Design Project Management</li> <li>• Collaborative Web Design</li> <li>• Creating a Web Design Portfolio</li> <li>• Creating a Plan for a Web Based Business Project</li> </ul>
<b>12: User Interface Design Process</b>	<ul style="list-style-type: none"> <li>• Choosing a Web Design Methodology</li> <li>• Creating a Web Site Vision Statement</li> <li>• Creating and Implementing a Web Site Strategy</li> <li>• Creating a Web Site Specification</li> <li>• Publishing a Web Site</li> <li>• Choosing a Web Site Host</li> </ul>	<ul style="list-style-type: none"> <li>• Securing a Web Site</li> <li>• Creating Ethical and Legal Web Sites</li> <li>• Creating a Mind Map</li> <li>• Using Metaphors</li> <li>• Creating Word Lists and Mood Boards</li> <li>• Creating a Site Map</li> </ul>
<b>13: User-Centered Web Design</b>	<ul style="list-style-type: none"> <li>• User-Centered Web Design</li> <li>• The Cognitive Psychology of Web Design</li> </ul>	<ul style="list-style-type: none"> <li>• Personas and Usability</li> <li>• Accessibility</li> </ul>
<b>14: User Interface Design Principles &amp; Legal Guidelines</b>	<ul style="list-style-type: none"> <li>• Web UI Design Principles</li> <li>• Visual Design Principles</li> </ul>	<ul style="list-style-type: none"> <li>• Branding</li> <li>• Legal Issues Impacting Web Design</li> </ul>
<b>15: Color, Typography, Layout and Wireframing</b>	<ul style="list-style-type: none"> <li>• Color</li> <li>• Typography</li> <li>• Layout</li> </ul>	<ul style="list-style-type: none"> <li>• Wireframes and Mockups</li> <li>• Responsive Web Design</li> </ul>
<b>16: Designing a Basic Web Site</b>	<ul style="list-style-type: none"> <li>• Creating a Web Site</li> <li>• Part 1: Creating One Site Page</li> <li>• Part 2: Creating the remaining Site</li> </ul>	<ul style="list-style-type: none"> <li>• Pages</li> <li>• Spell- and Grammar-Check the Site</li> </ul>
<b>17: Navigation Concepts</b>	<ul style="list-style-type: none"> <li>• Why is Web Site Navigation So Important?</li> <li>• Site Structure, Directory Structure and URLs</li> <li>• Positional Awareness</li> </ul>	<ul style="list-style-type: none"> <li>• Primary and Secondary Navigation</li> <li>• Navigation Elements</li> <li>• Navigation Conventions and Principles</li> <li>• Creating a Navigation System</li> </ul>
<b>18: Designing and Developing a Professional Web Site</b>	<ul style="list-style-type: none"> <li>• Why is Prototyping So Important?</li> <li>• User-Centered Web Design</li> <li>• User Interface Design Patterns</li> <li>• Optimizing the look and feel of a Web site</li> <li>• Focus on Web Forms</li> <li>• GET and POST</li> <li>• Constructing a Professional Web Site</li> </ul>	<ul style="list-style-type: none"> <li>• Web Framework</li> <li>• User Interface Libraries</li> <li>• Web Content Management Systems</li> <li>• Additional Web Development Tools</li> <li>• Web Hosting Services and Domain Names</li> </ul>
<b>19: Site Publishing, Maintenance, Security, and SEO Strategies</b>	<ul style="list-style-type: none"> <li>• Making Sure a Web Site is Ready to be Published</li> <li>• Maintaining a Web Site</li> <li>• Search Engine Optimization (SEO)</li> </ul>	<ul style="list-style-type: none"> <li>• SEO and Written Site Content</li> <li>• SEO and Mobile Friendliness</li> <li>• SEO and Metadata</li> </ul>