



# Front-End Web Developer 2.0

The Front-End Web Developer program is designed to prepare students to function as web developers in multiple technical, business, and healthcare settings. Web developers serve roles with job titles such as Web Site Developers, Web Designers, and Web Masters.

## The Front-End Web Developer Program

The purpose of this program is to prepare students to design and develop websites and maintain websites so they continue to meet user needs. This course covers the following key areas and topics:

- The Web: Understanding how the Web works, how it is structured, how it is coded, and how common web tools are used for specific purposes
- Web Design: Designing websites using appropriate fonts, text blocks, lists, tables, links, colors, images, and multimedia
- CSS: Designing web pages using Cascading Style Sheets
- Dynamic Sites: Designing dynamic websites using JavaScript, DOM, and other tools
- JavaScript Programming: Using third-party JavaScript to create dynamic website functioning

## Education & Certification

- The Front-End Web Developer student should have or be pursuing a high school diploma or GED.
- In addition to facilitating entry-level web designer and developer positions, this course is ideal for students interested in pursuing subsequent training and certification in advanced web design and development tools.
- Students may sit for the Microsoft MTA 98-375 – HTML5 Application Development Fundamentals Exam to obtain this certification.

## Detailed Course Topics Covered

- Applying understanding of the World Wide Web, web content creation, and web content delivery
- Selecting a Web hosting provider and the good practice of testing web content on multiple browsers
- Creating a basic website using HTML, CSS, styles, HTML elements, and links, video, and images
- Using the semantic elements and tags of HTML
- Working with fonts, text blocks, lists, and tables to create desired elements in a basic website
- Working with internal and external links to customize a website
- Working with colors, images, and multimedia to customize a basic website
- Creating basic HTML forms, completing forms with HTML5 input, adding form input fields, validating forms, and submitting form data
- Constructing internal style sheets and inline styles
- Installing and configuring JavaScript
- Linking between pages on a site, to external content, and to an email address
- Applying an understanding of dynamic websites and HTML5 applications
- Using basic JavaScript syntax including conditional statements and loops to develop web applications
- Using basic JavaScript syntax including arrays, array methods, strings, and expressions
- Using functions and function programming in JavaScript
- Using JavaScript object, prototype properties, and use of objects as namespaces to avoid name conflicts, and creating anonymous objects