WEB DEVELOPMENT COURSE

Course Outline

Unit 1 HTML

Lesson 1.1: Introduction to Web Development

In Lesson 1.1: Introduction to Web Development, you'll study what makes websites work, and what your role will be in their creation as a front-end developer.

Lesson 1.2: Introduction to HTML

In Lesson 1.2: Introduction to HTML, you'll review what HTML is and study the syntax and general composition of this important language.

Lesson 1.3 Attributes and Values

In Lesson 1.3: Attributes and Values, you'll review how to assign an attribute and a value with the opening tag of an HTML element.

Lesson 1.4: Text

In Lesson 1.4: Text, you'll create text elements in an HTML document and use the different HTML elements to organize your text in a clear information hierarchy.

Lesson 1.5: Lists and Tables

In Lesson 1.5: Lists and Tables, you'll create lists and tables to categorize, organize, show the steps in the process, and outline complex relationships between groups of information on a web page.

Lesson 1.6: Links and Navigation

In Lesson 1.6: Links and Navigation, you'll review how to structure a website out of various documents and link these documents or external locations within your HTML documents.

Lesson 1.7: Multimedia

In Lesson 1.7: Multimedia, you'll distinguish between media formats and their storage options, and you'll use different HTML elements to create a simple website that contains multimedia elements.

Lesson 1.8: Forms

In Lesson 1.8: Forms, you'll study the basics of HTML forms, one of the essential tools used by web developers to request, accept, and store data on a website.

Unit 2 CSS

Lesson 2.1 Introduction to CSS

In Lesson 2.1: Introduction to CSS, you'll go over how and why CSS is used to style websites, and how CSS is used in conjunction with HTML.

Lesson 2.2 Color

In Lesson 2.2: Color, you'll work to understand how to modify color using CSS to communicate mood, purpose, and identity to a web page.

Lesson 2.3 Text

In Lesson 2.3: Text, you'll study how to embed fonts in your web page, style elements using these fonts and set the text alignment of your elements.

Lesson 2.4 Box Model

In Lesson 2.4: Box Model, you'll practice using the various properties of CSS boxes to style your elements, particularly with regard to element borders and spacing, and position elements on a page using various CSS techniques.

Lesson 2.5 Styling Elements

In Lesson 2.5: Styling Elements, you'll study how to add custom stylization to various HTML elements by modifying CSS properties.

Lesson 2.6 Introduction to Layout

In Lesson 2.6: Introduction to Layout, you'll review how to use the position and float properties to specify how elements should be positioned on a web page and the various approaches to styling the layout of a page.

Lesson 2.7 Flexbox

In Lesson 2.7: Flexbox, you'll study how to apply the CSS Flexbox display property to simplify the process of sizing elements on a web page.

Lesson 2.8 CSS Grid

In Lesson 2.8: CSS Grid, you'll use the CSS grid layout method to create complex arrangements of HTML elements.

Unit 3 Java Script, Part I

Lesson 3.1 Introduction to Java Script

In Lesson 3.1: Introduction to JavaScript, you'll get an introduction to JavaScript, learn what it is, why developers use it, and how to use it in web page design.

Lesson 3.2 Data Types and Operators

In Lesson 3.2: Data Types and Operators, you'll study primitive data types and have a look at the different operator types JavaScript contains, study how to use them, and practice how to avoid common mistakes.

Lesson 3.3 Variables

In Lesson 3.3: Variables, you'll practice how to create variables with var, let, and const. You'll also work to understand the different scopes by which these variables are accessible.

Lesson 3.4 DOM Manipulation

In Lesson 3.4: DOM Manipulation, you'll dive into the world of dynamic and interactive web technologies and study how they work in conjunction with the Document Object Model (DOM).

Lesson 3.5 Conditional Statements

In Lesson 3.5: Conditional Statements, you'll use conditional statements to decide if specific code is going to be executed or not dependent on different conditions.

Lesson 3.6 Comparative and Logical Operators

In Lesson 3.6: Comparative and Logical Operators, you'll study how logical operators work, review what implicit type conversions are, and analyze what it means to write "beautiful" code.

Javascript, Part 2

Lesson 4.1 Loops

In Lesson 4.1: Loops, you'll practice repeating an action for a specific number of iterations based on specific conditions and stop loops when other conditions are met.

Lesson 4.2 Arrays

In Lesson 4.2: Arrays, you'll use arrays to store multiple values in a single variable and you'll access and manipulate array values.

Lesson 4.3 Functions

In Lesson 4.3: Functions, you'll study the purpose of JavaScript functions, look at the diverse types, and explain what the difference is between parameters and arguments.

Lesson 4.4 Objects

In Lesson 4.4: Objects, you'll create, access, modify, and loop through objects, and learn when to use objects instead of arrays.

Lesson 4.5: Common JavaScript Events

Lesson 4.5: Common JavaScript Events aims to show you how to apply very common JavaScript events and create event handlers that are attached to specific elements to react to events.

Lesson 4.6 Preparing for the Industry

In Lesson 4.6: Preparing for the Industry, you'll study how to use the basic Git Hub flow to manage versions of your code and basic job-hunting tips for when you begin looking for a new job as a developer.