Web Development I - HTML & CSS

Course Overview

This beginner-level course introduces students to the essentials of web design and development, focusing on frontend creation with HTML and CSS. Students will learn about the infrastructure of the Internet, how to build and publish web pages, and employ various layout and styling techniques.

Course Objectives

- Understand Internet infrastructure and the basics of web technologies.
- Become familiar with HTML and CSS.
- Learn web page layout techniques, including the use of div tags, lists, and the concepts of absolute vs. relative positioning.
- Understand and apply advanced layout strategies using CSS Flexbox and Grid to create responsive designs.
- Implement multimedia elements into web pages, such as images, videos, and favicons, enhancing user engagement.
- Develop skills in search engine optimization (SEO) and web accessibility to maximize website visibility and usability.

Web Dev vs. Web Design

The following link explains the difference between "web design" and "web development," so students may want to read the article and decide if this course is a good fit for them. [Web Designer vs Web Developer: What's the Difference? | Elementor](#)

Additional Resources

[Web Design | freeCodeCamp.org](#)

Unit 1: Intro to Web Technologies

- ☐ Video - ▶ How I'd Learn Web Development (If I Could Start Over)
- ☐ [Read - What is the Internet? (Intro to Web Technologies)](#)
- ☐ [Download and install VS Code](#)
- ☐ [Read - Github Setup](#)
- ☐ [Tech Class Repo](#) clone this repository; have the Tech Coach help you if you're unfamiliar with Git. Within the WebDev-I folder you'll find some readings and examples that will be helpful.

- ☐ [Read - Intro to HTML](#)
- ☐ Reading & Exercise 1.1 - Basic HTML
- ☐ Reading & Exercise 1.2 - Tags
- ☐ Reading & Exercise 1.3 - Basic CSS
- ☐ Reading & Exercise 1.4 - RGB Hex Values
- ☐ [Unit 1 Quiz](#)
- ☐ Unit 1 Assignment - Your First Blog

Unit 2: Layout and Structure

- ☐ Reading & Exercise 2.1 - Div Tags
- ☐ Reading & Exercise 2.2 - Linked & Unlinked Lists
- ☐ Reading & Exercise 2.3 - Layout & Wireframes
- ☐ Reading & Exercise 2.4 - Absolute vs. Relative (px vs. em and rem)
- ☐ Video - ▶ Learn CSS Position In 9 Minutes
- ☐ Reading & Exercise 2.5 - Embedding Multimedia
- ☐ Reading & Exercise 2.6 - Favicon
- ☐ Unit 2 Assignment - Spice Up Your Blog

Unit 3: Advanced Layout Techniques

- ☐ Reading & Exercise 3.1 - CSS Flexbox
- ☐ Video - ▶ CSS Flexbox in 100 Seconds
- ☐ Reading & Exercise 3.2 - CSS Grid
- ☐ Reading & Exercise 3.3 - Search Engine Optimization
- ☐ Reading & Exercise 3.4 - Embedding Audio & Video
- ☐ Reading & Exercise 3.5 - Console.log
- ☐ Unit 3 Assignment - Complete and Present Your Blog