level 3

Web Development 1

There are over a billion websites on the Internet, yet only a handful are widely visited. So what makes these few, like Google and YouTube, so popular? The simple answers are usability, utility, and engagement. In Web Development 1, students learn how to think like web developers. By utilizing industry standards like HTML, CSS, and JavaScript, students learn how to format code and where to place the main features of a web page to attract and hold users' attention.

The course begins by teaching HTML and CSS, so students can start building their websites right away. Students move on to learning best design practices and how to develop a site that meets the demands of a variety of users, and then they learn the basics of JavaScript. At the end of the course, students will have created their own engaging, functional website built with all three fundamental coding languages.

objectives

- ⊘ Apply the fundamentals of web development to design a website
- ⊘ Code and design websites using HTML and CSS
- ⊘ Learn the basics of JavaScript to create a dynamic website

key projects

- ⊘ Keeping a design journal
- ⊘ Creating a static website
- ⊘ Creating an interactive website
- ⊘ Developing a text-based story told using JavaScript
- ⊘ Building a dynamic, web-based Mad Libs program
- ⊘ Finishing a final website designed with HTML, CSS, and JavaScript

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units

Unit 1 | Introduction to HTML
Starting to code with HTML

Unit 2 | Introduction to CSS
Designing and styling a site with CSS

Unit 3 | Bringing It Together
Using HTML and CSS to develop a static website

Unit 4 | Intermediate HTML and CSS
Learning about libraries for HTML and CSS

Unit 5 | Introduction to JavaScript
Learning the basics of JavaScript including how to display information
on a website

Unit 6 | User Interaction
Taking information typed in by a user and incorporating it into the
student's own program

Unit 7 | Design and Refine Your Website
Combining all they have learned to develop a website according to industry
standards

Unit 8 | Final Project
Using HTML, CSS, and JavaScript to create a dynamic website based on the
student's personal interests

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