MODERN WEB DEVELOPMENT

*Build responsive websites from scratch using the latest technologies,
including HTML, CSS, Bootstrap, and Javascript.*

COURSE SECTIONS

Topic 1
Structure and Style

Students will learn the basics of web development with HTML and CSS.

Students will design and build a blog post component and a sample social media post. They will also begin work on their first of two projects, a real-world microsite for a Pittsburgh-based sunglass company.

4 Weeks
12 Total Hours

Concepts
  - HTML
  - CSS
  - web page structure
  - box model

Topic 2
Responsive Web Design

Students will learn how to build websites for computers and mobile devices, including the basics of responsive design and mobile-first development.

Students will refactor existing components they have written for desktop computers to optimize it for mobile devices. They will also build a section of their first project for both mobile devices and desktop computers.

2 Weeks
6 Total Hours

Concepts
  - responsiveness
  - mobile and desktop web layouts
  - media queries

Topic 3
CSS Frameworks

Students will learn how to build faster, more repeatable, and better optimized websites using Bootstrap, the most popular CSS framework for front-end web development.

Students will build a simple landing page using Bootstrap's utilities and pre-built components. They will also integrate Bootstrap into their first project and begin their second project, a personal developer portfolio.

2 Weeks
6 Total Hours

Concepts
- Bootstrap
- utility classes
- grid system

Topic 4
Behavior and Interaction with Javascript

Students will learn Javascript fundamentals and write simple scripts using event listeners to add dynamic content and interactive behavior to their websites.

Students will add a dynamic form and map component to their first project. They will also receive guidance on their personal portfolio project and submit a rough draft.

2 Weeks
6 Total Hours

Concepts
- Javascript
- DOM manipulation
- event-based scripting

***Note:** To ensure student training remains relevant, course titles and content are subject to change to keep program curriculum inline with best practices and employment trends.*