

WEB DESIGN AND DEVELOPMENT CERTIFICATE

Program Description

This front-end web development certificate is all about designing and building websites that are focused on the needs of users, striking a balance between form and function. From the very beginning, you will explore the ideas of mental models and target audience personas. By taking a design-first, code-second approach, you will learn to structure content and make informed design decisions based on the needs of potential website visitors before writing a single line of code. Foundational concepts of writing valid HTML and CSS are paired with accessibility best practices to ensure you can implement your designs effectively and accurately. Through an introduction to JavaScript, jQuery, and data collection, you will explore adding simple interactivity and forms to your websites. Throughout these courses, you will practice meeting the needs of your target audiences while designing web experiences that are attractive, functional, and accessible.

Key Takeaways

- Establish a framework for success in front-end web development
- Produce valid HTML that organizes content in a meaningful way for your target audience
- Use CSS to design and implement a web page that is appropriate for your target audience
- Employ visual design principles to create attractive, functional websites styled and laid out with CSS
- Enhance the user experience through interactivity with JavaScript
- Recognize basic JavaScript & jQuery syntax rules and event-based programming techniques
- Design, code, and evaluate a form to collect data inputs from your target audience

What You'll Earn

- Web Design and Development Certificate from Cornell Computing and Information Science
- 60 Professional Development Hours (6 CEUs)

Who Should Enroll

- Aspiring web developers, web designers, and UX designers
- Backend programmers who need front-end skills to become full-stack developers
- Self-taught web programmers
- Entrepreneurs

Total Investment

- 3 months to complete all the courses

How to Enroll

For more information on how to enroll, please visit Web Design and Development Certificate (<https://ecornell.cornell.edu/certificates/technology/web-design-and-development/>).

The courses in this certificate program are required to be completed in the order that they appear.

Courses

Code	Title	Hours
eCornell CIS541	Framing Front-End Web Development	0
eCornell CIS542	Structuring Content with HTML	0
eCornell CIS543	Styling Web Content with CSS	0
eCornell CIS544	Composition and Responsive Design	0
eCornell CIS545	Improving User Experience with Interactivity	0
eCornell CIS546	Collecting Data with Forms	0