COURSE SYLLABUS

Front-End Web Development Certificate

Learn front-end web development with HTML & CSS, and JavaScript, and gain skills in building responsive websites for any screen size. Additionally, learn how to use WordPress, the world's leading content management system, to create customizable websites and edit content without coding experience.

> Group classes (Live Online) and onsite training are available for this course. For more information, email onsite@graduateschool.edu or visit: https://sdfm.graduateschool.edu/certificates/front-end-web-development



CustomerRelations@graduateschool.edu • (888) 744-4723

Course Outline

This package includes these courses

- Web Development with HTML & CSS (18 Hours)
- Advanced HTML & CSS (18 Hours)
- Flexbox, Grid, & Bootstrap (12 Hours)
- JavaScript for Front-End (18 Hours)
- Front-End Tools & Portfolio (18 Hours)
- WordPress Bootcamp (18 Hours)
- HTML Email Bootcamp (6 Hours)

Web Development with HTML & CSS

- Start learning to build websites by hand-coding HTML and CSS
- Markup content (text, images, lists, links, etc.) using HTML (Hypertext Markup Language)
- Style the content using CSS (Cascading Style Sheets), setting font, size, color, spacing, width, and more
- Create multi-page websites with text, images, and more
- Adapt the layout for different screen sizes to create responsive webpages
- Use web browser developer tools to look behind the scenes and experiment with code changes
- Upload your website files using FTP to make the site live

Advanced HTML & CSS

- Master important CSS concepts such as positioning, advanced CSS selectors, relative sizing units (px, em, rem), calc(), and much more
- Learn sophisticated styling with multiple background images, transparent colors using RGBA, CSS gradients, shadows, and more
- Learn multiple ways to use and style SVG in webpages
- Code responsive images using img srcset and the picture element

- Learn CSS variables for cleaner, more flexible code
- Create mobile-optimized off-screen navigation menus using only CSS
- Create animated effects using CSS transitions and transforms

Flexbox, Grid, & Bootstrap

- CSS Flexbox to lay out and align webpage content
- CSS Grid for an entirely new way to think about laying out entire webpages
- Use Bootstrap (which is made with Flexbox) to build out layouts quickly
- Learn how Flexbox and Grid change the way you approach webpage layout
- Size, position, align, and reorder content using Flexbox and Grid

JavaScript for Front-End

- Write JavaScript code to add animation and interactivity to webpages
- Learn the fundamentals of the JavaScript language (variables, loops, arrays, functions, etc.)
- Understand how to use free pre-made JavaScripts to quickly add many different kinds of common functionality
- Create animated slideshows and build animated image enlargers
- Learn to animate any content within a webpage—including SVG—using GreenSock (GSAP)

Front-End Tools & Portfolio

Learn how to turn a webpage design into fully functional code while mastering essential front-end development tools. This course covers Git, GitHub, Emmet, and Visual Studio Code to streamline coding and collaboration.

- Build a coding portfolio by developing a project from scratch with expert guidance.
- Learn Git fundamentals to track code changes, revert versions, and manage repositories.
- Use GitHub for collaboration, including pushing, pulling, cloning, and handling merge conflicts.
- Master Visual Studio Code shortcuts and features to improve workflow and efficiency.
- Utilize Emmet coding shortcuts to speed up HTML and CSS development.
- Gain hands-on experience in real-world coding workflows and best practices.

WordPress Bootcamp

Learn how to create and manage websites using WordPress, even without a web design background. This course covers everything from installation to theme customization and custom template creation.

- Build websites or blogs with WordPress
- Create or edit webpages and blog posts in a WordPress site, format text, images, links, and more
- Install WordPress themes (which control the appearance of a WordPress site) and customize their appearance
- See how WordPress plugins add functionality
- Install WordPress locally so you can write and test your code
- Learn how WordPress code works behind the scenes and how to use HTML, CSS, and PHP to customize and control it

HTML Email Bootcamp

- Learn how to code effective HTML email messages that are cross-mail-client compatible

- Build and work with multiple layouts, including single and multi-column layouts
- Gain a deeper understanding of email-friendly HTML and CSS, and how to manage issues across different email clients
- Create responsive emails that adapt across various devices
- Optimize images and swap graphics to enhance mobile device compatibility
- Use media queries to fine-tune mobile styles