COURSE SYLLABUS

Web Development with HTML & CSS (Self-Paced)

Learn how to code webpages using HTML and CSS, from structuring and tagging content to styling and making the pages responsive. Upload and make your websites live using FTP.

> 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/courses/web-development-course-online



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Course Outline

Section 1

Coding Basics: Intro to HTML Syntax

- Basic tags: HTML, head, title, & body
- Headings, paragraphs, & lists

Tags & Attributes: Strong, Em, Doctype, Lang, & Meta

- Strong & em tags
- Doctype
- Lang attribute
- Meta tag & unicode character set

Coding Links: Absolute & Relative URLs

- Anchor tags & hrefs
- Linking to other websites
- Linking to pages within a website
- Opening a link in a new browser window/tab

Adding Images

- Break tag
- Image tag & source attribute
- Using width, height, & alt attributes

Section 2

Intro to Cascading Style Sheets (CSS)

- Style tag

- Tag selectors
- Font-size, font-family, color, & line-height properties
- Hexadecimal color codes

CSS Class Selectors

- Class attribute
- CSS class selectors
- Span tag
- CSS opacity

Div Tags, ID Selectors, & Basic Page Formatting

- Dividing up content with the div tag
- Assigning IDs to divs
- Setting width & max-width
- CSS background-color
- Adding padding inside a div
- Centering content
- CSS borders
- CSS shorthand & the DRY principle

Browser Developer Tools & Validating HTML

- Opening the DevTools in Chrome
- Editing HTML in the DevTools Elements panel
- Enabling, disabling, & editing CSS in the DevTools
- Using DevTools to fine-tune your CSS
- Hexadecimal shorthand
- Checking for errors: validating your code

Section 3

HTML Semantic Elements & the Document Outline

- Using headings to produce a good document outline
- Header, nav, aside, & footer elements
- Articles & sections
- Main element
- Figure & figcaption elements

Revolution Travel: Page Layout

- Organizing content into semantic sections
- Adding images
- Tagging headings

The Box Model

- What is the box model?
- Setting width
- Adding a hero image
- Fluid-width images

- Setting a default font for the page
- Margin & padding spacing
- Centering divs

Coding Links: Images & Page Jumps

- Anchor tags & relative URLs
- Wrapping links around images
- External links (using the target attribute)
- Links within a page

Section 4

Styling Links

- Styling the anchor tag
- The :link, :visited, :hover, :focus, & :active pseudo-classes
- Ordering link styles

Styling the Navigation

- Semantically correct navigation
- Overriding default list styles
- CSS navigation styles
- Using descendant selectors

Specificity, Shared CSS, & Centering Content

- CSS specificity
- Overriding other link rules
- Moving embedded styles into an external CSS file
- Sharing styles across a site
- Text-align property

Setting the Viewport Meta Tag

- Disabling mobile browser text size adjustment
- Viewport meta tag
- device-width
- initial-scale
- maximum-scale

Section 5

Starting a New Site & CSS Background Images

- Setting a default font
- Removing default page margin
- Linking to an external style sheet
- CSS background images
- background-position
- background-repeat
- background-size

Adding Custom Fonts (using Google Fonts)

- How to use Google Fonts
- Safe fallbacks in the font stack
- Improving line-height & margin for text legibility

Page Layout: Fine-Tuning with the Box Model

- Removing the extra space below an image
- Setting a max-width
- Outer & inner wrappers
- The difference between ID & class selectors

Section 6

Navigation Bar Layout: Intro to Flexbox

- Coding & styling semantically correct navigation
- Intro to using Flexbox for layout

Hipstirred: Hi-Res Images

- Retina or HiDPI graphics (@2x images)
- Setting HTML or CSS size to half the image's native size
- Code pixels vs. hardware pixels

Creating Columns: Intro to CSS Grid & Media Queries

- Creating a 2-column layout with CSS Grid
- Finding an appropriate breakpoint
- Using a media query to change the layout at a specific screen size