COURSE SYLLABUS

Web Development with HTML & CSS Course Online

Learn how to create webpages with HTML and CSS, covering everything from structuring and tagging content to styling and making pages responsive. You'll also discover how to upload and publish your websites using FTP.

Group classes (Live Online) and onsite training are available for this course. For more information, email partnerships@vdci.edu or visit: https://vdci.edu/courses/web-development-with-html-css-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