



CodeHS

TCH048AE2 Web Design 2 Syllabus

Course Overview and Goals

In today's world, web pages are the most common medium for sharing ideas and information. Learning to design websites is an incredibly useful skill for any career path.

The CodeHS TCH048AE2 Web Design 2 course is a project-based course that teaches students how to build their own web pages. Students will learn the languages HTML and CSS, and will start their own live homepages to serve as portfolios of their creations. By the end of this course, students will be able to explain how web pages are developed and viewed on the Internet, analyze and fix errors in existing websites, and create their very own multi page websites.

Learning Environment: The course utilizes a blended classroom approach. The content is fully web-based, with students writing HTML and CSS in the browser. Teachers utilize tools and resources provided by CodeHS to leverage time in the classroom and give focused 1-on-1 attention to students. Each unit of the course is broken down into lessons. Lessons consist of video tutorials, short quizzes, example web pages to explore, and web design exercises in which students develop and publish their own web sites.

Development Environment: Students write HTML and CSS code in the browser using the CodeHS online editor. Classes can choose to write code using either blocks or text. Due to the fact that different browsers treat HTML and CSS differently, we highly recommend that all student computers use an up-to-date version of the Chrome browser. You can download an up-to-date version of Chrome for free here:

<https://www.google.com/chrome/browser/>

Quizzes: Each lesson includes at least one formative short multiple choice quiz. At the end of each unit, students take a summative multiple choice unit quiz that assesses their knowledge of the concepts covered in the unit.

Prerequisites: There are no official prerequisites for this course. The course is designed for complete beginners with no previous background in computer science. The course is highly visual, dynamic, and interactive, making it engaging for new students. In the broader course pathway, the Web Design course is a great starting place. However, students that have taken other CodeHS courses will be able to apply concepts learned in earlier courses to Web Design, making Web Design a great second or third course in the pathway.

More information: Browse the content of this course at <https://codehs.com/course/14521>

Course Breakdown

Unit 1: Advanced HTML and CSS (6 weeks/30 hours)

Objectives / Topics Covered	<ul style="list-style-type: none">● Splitting your site into separate files● Iframes and embedding● <div>●
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	<ul style="list-style-type: none"> ● Combining CSS selectors ● Special CSS selectors ● Reading documentation ● Avoiding repeated code ● Visibility ● Positioning ● Image manipulation ● Animation ● Interaction
Assignments / Labs	<ul style="list-style-type: none"> ● Example exercises: <ul style="list-style-type: none"> ○ Use iframes to embed a video into your web page ○ Use iframes to embed a previous exercise into your web page ○ Use divs and spans to style groups of HTML elements ○ Add CSS styling to elements that the user clicks on ○ Add CSS styling to elements that the user hovers over ○ Use CSS to add a black and white filter to a group of images ○ Use CSS to add a blur filter to a group of images ○ Use CSS animations to make your site slowly fade in over time

Unit 2: Project: Tell a Story (2-3 weeks/10-15 hours)

Objectives / Topics Covered	<ul style="list-style-type: none"> ● Combination of the concepts learned thus far ● Allow students to think creatively about applications of the concepts they have learned ● Designing a web page from scratch
Assignments / Labs	<ul style="list-style-type: none"> ● Students will develop an animated and interactive web page that tells a visual story, and add this web page to their personal portfolio website.