

Web Design and Development - HTML and CSS

General Information

Description

In this course students will learn to build websites by using HTML and CSS. They will learn the various elements of HTML and CSS and how to construct good looking sites by using those elements effectively. Students will learn to create their own web pages from scratch, upload them to hosting servers, choose domain names, and then launch these sites as a demonstration of their abilities.

Expectations and Outcomes

Here are some additional outcomes:

- Students understand the basics of the Internet and how web page work.
- Students can articulate the need for the world wide web and how the HTTP protocol is essential in navigating web sites.
- Students will be able to build web sites using HTML and CSS.
- Students will learn to use some of the advanced features of HTML5 and advanced CSS.
- Once fairly experienced, students can create and deploy professional looking websites.

Course Materials

Prerequisites

- None

Device Requirements

Any device with an Internet connection is sufficient.

Additional Information and Resources

Course Length	Delivery Method	Recommended Age Group
60 hours	Online / Classroom	Middle - High School (Ages 12+)

Certifications Offered

Pathway Alignment

Standards Aligned

W3 Schools HTML Certificate		CSTA ISTE K-12 Framework	
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Attention to Equity and Diversity

Rex Academy is dedicated to bringing this course to all interested students, regardless of their backgrounds or the zip code which they reside in.

As such, special attention has been given to the curriculum in the following manner:

1. Rex Academy’s Web Design content can run on any device (Chromebooks, tablets, phones, PCs, etc). The Internet connection needs to be minimal. We are determined to remove all obstacles to access.
2. The web sites are launched within our system, thus removing the need for any after-market products.
3. The course can be absorbed in a direct classroom setting or in an after-school environment. Students can learn in groups or individually.
4. Instruction and assessment are performed in several ways, thus accommodating various learning styles.

Course Syllabus

Unit Number	Topic	Brief Description
Chapter 1	Basics of the Internet	Students learn the basics of web pages, browsers, and the Internet.
Chapter 2	HTML Styles	Students learn the basics of HTML tags and how to use them properly.
Chapter 3	Introduction to CSS	Students use CSS to perform basic style changes such as colors and text.
Chapter 4	HTML Links and Attributes	Students create HTML links and use CSS attribute functions to change the look of the website.
Chapter 5	Project 1	In this project, students will plan and create their very first web site.
Chapter 6	HTML Tables	Students learn to create and control fields within HTML tables.

