



## HTML, CSS, and JavaScript 7-9 Syllabus

### Course Goals

#### 1 Design Principles

Students learn fundamental principles of visual design and content creation.

#### 2 Coding Web Sites

Students learn technical skills for creating web sites, including HTML5, CSS, and JavaScript.

#### 3 Final Project Web Site

Students create a personal web site about the topics of their choice, learning to apply principles for creating their own content-rich, well-designed sites.

### Course Topics

#### 1 HTML

Students learn the fundamental structure of a web site using HTML tags.

#### 2 CSS

Students create vivid, compelling content using CSS stylesheets.

#### 3 JavaScript

Students create responsive content using simple JavaScript.

#### 4 Web Design Tools

Students learn how to use various simple tools to help with web design, including GIMP for image editing and Notepad++ for modifying code.

#### 5 Image Editing and Design

Students create and edit images and photographs to add multimedia content to their web sites.

### Course Schedule

#### Day 1

##### Introduction to Course

Students review HTML, GIMP, and CSS.

##### Create New Web Pages

Students begin creating new HTML files.

#### Day 2

##### Block and Inline Elements

Students learn how to implement block and inline elements in their web pages.

##### DIVs and SPANs

Students explore the uses of div and span elements.

## Day 3

### Review of CSS Rules and Syntax

Students review CSS rules.

### Multi-Column Layouts

Students use CSS to create multi-column layouts.

## Day 4

### Creating Hyperlinks

Students learn how to add hyperlinks to their web pages.

### Using Cameras to Create Website Images

Students use digital cameras to create images for their websites.

### GIMP Photo Editing

Students use GIMP to edit photos they've taken to add to their websites.

## Day 5

### Inline Graphics

Students learn how to add graphics within the text of their web pages.

### Image Effects

Students use GIMP to add effects to images on their websites.

## Day 6

### Text Decorations

Students learn how to emphasize different portions of their text using emphasis tags.

### Construction and Style of Forms

Students learn how to use forms to receive input from the users of their sites.

### Introduction to JavaScript

Students learn how to use JavaScript to create interactive web pages.

## Day 7

### Borders and Backgrounds in CSS

Students learn how to add more styles to their web pages using CSS.

### Gradients

Students learn how to use gradients to make their web pages and images have more layers.

### Animated GIFs

Students learn how to create animated GIFs.

## Day 8

**Web Hosting and Copyright Laws** Fairfax Collegiate · Have Fun *and* Learn! · For Rising Grades 3 to 9  
Students learn how to host their web pages on the internet.

## **Mouseover Changes, Styles, and Forms with JavaScript**

Students learn various additional effect JavaScript can have on their web pages.

### **Day 9**

#### **Websites**

Students work on their final project, completing a website.

#### **Final Project Workshop**

Students work on their final projects.

### **Day 10**

#### **Share Websites**

Students share their completed web pages with their classmates.

#### **Review**

Students review the material they've discussed throughout the class.

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