Fairfax Collegiate

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Web Development 7-9 Syllabus



Course Goals

1 Computer Programs Students gain a basic understanding of how computer programs work

2 Project Planning and Execution Students plan and execute an individual project demonstrating their knowledge of web technologies

3 Web Technologies Students learn about HTML, CSS, and JavaScript, as well as how the three work together to create webpages

Course Topics

1 HTML Students understand how to create web pages using HTML.

2 CSS

Students understand how CSS can be used to change the appearance of a web page.

3 JavaScript Students understand how to write simple JavaScript programs.

4 Functions Students create new and call existing functions.

5 DOM

Students understand the Document Object Model and how it can be accessed.

6 JQuery

Students learn about JQuery and how to include it in their web pages.

7 Selectors

Students learn how to use selectors to modify the DOM.

8 Event Listeners

Students learn how to create event listeners while using JQuery.

9 Animations

Students learn how to use JQuery to create animated web pages.

Course Schedule

Day 1

Introductions and Ice Breaker

Students are introduced to each other and to the course.

The Javascript Console

Students learn how to use the JavaScript console bundled with their browser.

Variables

Students learn to create variables

Day 2

Your First JavaScript File Students create an external script to be loaded by the browser

Your Home Page

Students learn basic HTML and CSS and create a simple home page

Day 3

JavaScript Basics Students learn about basic JavaScript functionality, including if statements, loops, and functions.

Document Object Model and jQuery

Students learn about the DOM and use it to make modifications to their home pages.

Day 4

Look Ma, A Button! Students learn about JavaScript Event Listeners.

Many Elements

Students learn how to deal with more than one DOM element at a time.

Closures

Students learn about closures and how they can help their functions.

Day 5

Images

Students learn how to add images to their home pages and create personalized art.

Input and Output

Students learn how to read values from HTML inputs as well as adding new elements dynamically.

Mad Libs

Students create silly mad libs using inputs and jQuery.

Day 6

Guessing Number game

Students use their knowledge up to this point to create a simple guessing numbers game.

Fairfax Collegiate · Have Fun and Learn! · For Rising Grades 3 to 12

Introduction to Animation

Students learn about jQuery animations.

Day 7

TODO Application

Students use their knowledge to create a "TODO list", which uses all of the knowledge they have gained thus far

Day 8

CSS Animations Students create and use CSS animations

Final Project Planning Students plan out their final project and get their plan approved by the teacher.

Final Project pt. 1 Students start working on their final Projects

Day 9 Final Project Pt. 2 Students work on their final projects

Day 10 Final Project Pt. 3 Students work on their final projects.

Final Project Fair Students present their final projects to the teacher and their class

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