# GENERAL ASSEMBLY

Front End Web Development (FEWD)
March 8th - May 12th
Tuesdays and Thursdays, 6:30 – 9:30pm

Instructor: Sarah Holden

| | LESSON | TOPIC | LEARNING OBJECTIVES |
|---|---|---|---|
| **WEEK 1: HTML/CSS BASICS** | 1 | *HTML Basics* | ‣ Provide an overview of the world of web development<br>‣ Articulate the role of HTML, CSS and JavaScript in front-end development.<br>‣ Recognize the different roles and responsibilities in web development.<br>‣ Apply and experiment with HTML tags. |
| | 2 | *CSS Basics* | ‣ Describe the DOM and draw a simple DOM tree.<br>‣ Predict image paths and apply relative paths to <img> and <a> tags.<br>‣ Differentiate between basic web color principles: RGB, RGBA, hexadecimal color.<br>‣ Use CSS to add basic styles to an HTML page. |
| **WEEK 2: STYLING** | 3 | *Box Model* | ‣ Select nested elements to apply styling<br>‣ Differentiate between classes and IDs and apply best practices when implementing.<br>‣ Apply and explain CSS “cascade” including: importance, specificity and inheritance.<br>‣ Define CSS Box Model, and demonstrate the ability to properly manipulate the "box" around elements |
| | 4 | *Layout* | ‣ Differentiate between block and inline elements<br>‣ Identify when HTML5 structural elements should be used<br>‣ Apply header, footer, sidebar, and multi-column layouts to build a web page.<br>‣ Experiment and predict effects of floats and clearing CSS positioning. |
| **WEEK 3: PAGE LAYOUT** | 5 | *Lab* | ‣ Practice web development by transforming a design comp into a webpage. |
| | 6 | *Lab/Review* | ‣ Practice web development by transforming a design comp into a webpage. |

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| **WEEK 4: INTRO TO PROGRAMMING** | 7 | *Intro to Programming* | ▸ Practice programmatic thinking by writing pseudo code to solve a basic problem.<br>▸ Define web site behavior and the practical uses of JavaScript.<br>▸ Predict DOM output / changes by reading JS code. |
| | 8 | *jQuery Basics* | ▸ Differentiate between jQuery and JavaScript, describe benefits of using them.<br>▸ Recognize jQuery syntax<br>▸ Use selectors and jQuery functions to effectively manipulate the DOM. |
| **WEEK 5: JAVASCRIPT BASICS** | 9 | *JS (Variables, Conditionals)* | ▸ Define variables and identify best cases to use them.<br>▸ Differentiate between strings, integers and floats.<br>▸ Apply conditionals to change the program's control flow |
| | 10 | *JS (Functions)* | ▸ Describe arguments as they relate to functions.<br>▸ Predict values returned by a given function. |
| **WEEK 6: JAVASCRIPT CONTINUED** | 11 | *JS (Arrays)* | ▸ Apply JS and jQuery knowledge to program a carousel.<br>▸ Define arrays<br>▸ Practice using indexes to access array elements |
| | 12 | *Lab* | ▸ Describe the concept of "this" as it applies within jQuery functions<br>▸ Apply programming skills to add interactions to a page |
| **WEEK 7: MULTIPLE SCREENS** | 13 | *Responsive Basics* | ▸ Describe responsive design.<br>▸ Know the difference between fluid, fixed and responsive layouts<br>▸ Apply media queries to achieve a responsive layout. |
| | 14 | *Responsive Lab* | ▸ Learn how to analyze a web page in order to be able to redesign it responsively.<br>▸ Practice using media queries for responsive design. |

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| **WEEK 8: ANIMATION & LAB** | 15 | *Animation & Advanced CSS Positioning Techniques* | ‣ Identify and differentiate between different CSS positioning techniques<br>‣ Familiarity with how animations and transitions can be used in CSS<br>‣ Understand how animation can still be controlled using JS |
| | 16 | *Final Project Lab* | ‣ In-class time to work on final project. |
| **WEEK 9: FORM BASICS/ STUDENT'S CHOICE** | 17 | *Form Basics* | ‣ Be able to differentiate the different types of inputs and why/where we would use each<br>‣ Explain how to group elements by name. |
| | 18 | *Students' Choice* | TBD |
| **WEEK 10: FINAL PROJECTS** | 19 | *Final Project Lab* | In-class time to work on final project. |
| | 20 | *Presentations* | Final Project Presentations |