



### III. Statement of Course Need

- A. As businesses continue to incorporate Web based strategies in order to remain competitive in today's online world, the demand for Web site professionals remains strong. In the twentieth century, a rudimentary knowledge of HTML was all that was required in order to become a successful Web page developer. Today, professionals need to be familiar with HTML5, CSS3, JavaScript, database programming, server side programming, etc. This course is the second step (after Web Page Development I) that any future Web developer must take in the journey to proficiency.
- B. This course has a Lab Component. Internet Accessible computers with multiple web browsers, ftp, and web authoring software are needed for students to develop and publish web pages.
- C. Transferability of course: This course generally transfers as a Computer Science Elective

### IV. Place of Course in College Curriculum

- A. Free elective
- B. This course meets a program requirement for:
  - a. ~~Web Developer Certificate~~
  - b. Interactive Digital Media & Web Development AS Degree
  - c. Interactive Digital Media & Web Development AAS Degree
  - d. Interactive Digital Media & Web Development Certificate
- C. Programming Elective on the Computer and Programming Electives List
- D. Course transferability; for New Jersey schools go to the NJ Transfer website, [www.njtransfer.org](http://www.njtransfer.org). For all other colleges and universities go their individual websites.

### V. Outline of Course Content

The course outline provides an overview of the subject content to be covered in the course. It contains sufficient detail so that the scope and depth of the course may be easily inferred and that someone unfamiliar with the subject area will be able to understand what the course entails. The outline order may be either hierarchical or chronological and include activities as well as topical areas. For example:

- A. Cascading Style Sheets
  - 1. Review
  - 2. CSS Grid and Flexbox
  - 3. Transforms, Transitions, and Animations
  - 4. Responsive Design
  - 5. Responsive Design Libraries
- B. JavaScript
  - 1. Introduction to JavaScript
- C. jQuery

1. CSS with jQuery
2. Animation
3. Dynamic Page Updates using JQuery

## **VI. General Education and Course Learning Outcomes**

### **A. General Education Learning Outcomes:**

**At the conclusion of this course, students will be able to:**

1. design and develop small Web sites and present the design and implementation to the class (GE-NJ 4).

### **B. Course Learning Outcomes:**

**At the completion of the course, students will be able to:**

1. work collaboratively in a group to design and publish Web pages using advanced CSS that are responsive based on screen size.
2. create dynamic Web pages using client side JavaScript and jQuery
3. present their design of a small Web site and the implementation of their design to the class
4. incorporate third party CSS libraries to create responsive designs.

### **C. Assessment Instruments**

1. demonstrations
2. portfolios

## **VII. Grade Determinants**

- A. projects
- B. tests
- C. presentations

The primary formats, modes, and methods for teaching and learning that may be used in the course:

- A. lecture/discussion
- B. small-group work
- C. computer-assisted instruction
- D. laboratory

## **VIII. Texts and Materials**

A. suggested textbook

*CSS The Missing Manual 4th Edition*. David Sawyer McFarland, O'Reilly Publishing. © 2015. ISBN-13: 978-1491918050

(Please Note: The course outline is intended only as a guide to course content and resources. Do not purchase textbooks based on this outline. The RVCC Bookstore is the sole resource for the most up-to-date information about textbooks.)

**IX. Resources**

A. Computer lab with Internet Connectivity

**X. Honors Option:**

N/A