

**J. Sargeant Reynolds Community College
Course Content Summary**

Course Prefix and Number: ITD 212

Credits: 4

Course Title: Interactive Web Design

Course Description: Provides techniques in interactive web design concepts for cross-platform and low-bandwidth through fast and concise open source applications. Emphasizes the importance of usability, accessibility, optimization, and performance. Understand and implement skills to design web sites for wireless devices. JQuery and JQuery Mobile are used to make websites interactive by reacting to visitor actions, use animations and effects, build drop-down navigation menus, pop-ups, and automate slideshows and more to improve the user interface. Prerequisite: ITD 110 or equivalent. Lecture 4 hours per week.

General Course Purpose: Required in Web Development Career Studies Certificate, which also feeds into the IST AAS - Web Development concentration. It can also be used as an IT elective in any degree concentration

Course Prerequisites and Co-requisites:

Prerequisite: ITD 110 or equivalent

Student Learning Outcomes:

Upon completing the course, the student will be able to

- a. Apply techniques in interactive web design to create cross-platform, compact, low-bandwidth animations utilizing open source applications, and Adobe Dreamweaver;
- b. Use Adobe Fireworks to modify and create graphics for the web being mindful of usability, accessibility, optimization, and performance;
- c. Design web sites with JQuery and JQuery Mobile (latest version) for interactive events and responsive web pages;
- d. Implement the loading of AJAX to change part of a web page; and
- e. FTP web sites to the student web server.

Major Topics to Be Included

- a. Techniques in interactive and responsive web design
- b. Graphics editor
- c. JQuery (open source) code
- d. JQuery Mobile (open source) code
- e. JQuery libraries
- f. AJAX

Date Created/Updated: January 20, 2022