

WEB 115: WEB MARKUP AND SCRIPTING

COURSE DESCRIPTION:

Prerequisites: WEB 110

Corequisites: None

This course introduces Worldwide Web Consortium (W3C) standard client-side Internet programming using industry-established practices. Topics include JavaScript, markup elements, stylesheets, validation, accessibility, standards, and browsers. Upon completion, students should be able to develop hand-coded web pages using current markup standards.

Course Hours per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

LEARNING OUTCOMES:

Upon completing requirements for this course, the student will be able to:

- A. Create dynamic web pages using the JavaScript scripting language.
- B. Create dynamic web pages using the jQuery library.
- C. Develop a website using JavaScript and JQuery.

OUTLINE OF INSTRUCTION:

- I. The ABC of Programming
- II. Basic JavaScript Instructions
- III. Functions, Methods, and Objects
- IV. Decisions and Loops
- V. Document Object Model
- VI. Events
- VII. jQuery
- VIII. Ajax and JSON
- IX. APIs
- X. Error Handling and Debugging
- XI. Content Panels
- XII. Filtering, Searching, and Sorting
- XIII. Form Enhancement and Validation