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