Course Title: Advanced JavaScript using jQuery

Course Description:
Learn how to develop and use custom objects, and develop complex client side applications. The course will also cover Cascading Style Sheets (CSS), and their use in conjunction with JavaScript and HTML to produce dynamic capabilities using client-side programming. Topics to be covered include: the extensive use of cross-browser compatible layers, dynamic menus, and animation. The techniques learned in this course will allow you to write client-side code that is compatible with both Netscape and Internet Explorer browsers (Version 4 and above).

Course Prerequisite(s):
HTML, CCS, and Intro to Javascript

Course Objectives:
Learn use of cross-browser compatible layers, dynamic menus, and animation. The techniques learned in this course will allow you to write client-side code that is compatible with both Netscape and Internet Explorer browsers (Version 4 and above).

Textbook(s):
Murach’s JavaScript and jQuery
Publisher: Murach; ISBN: 978-1-890774-70-7

Next Class Possibilities:
Introduction to Active Server Pages
AJAX Programming

Lesson Plan – by week or session
Session 1: Introduction to web development
  Getting started with JavaScript
  How to work with objects, functions, and events
Session 2: How to test and debug a JavaScript application
  How to work with arrays
  How to script the DOM with JavaScript
Session 3: Get off to a fast start with jQuery
  How to use effects and animations
  How to use the DOM manipulation and traversal methods
Session 4: How to work with forms and data validation
  How to create and use plugins
  Get off to a fast start with jQuery UI themes and widgets
Session 5: How to use jQuery UI interactions and effects
  How to use Ajax, JSON, and Blogger
  How to use the APIs for Youtube, Twitter and Flickr
Session 6: How to use the API for Google Maps
Get off to a fast start with jQuery Mobile
How to enhance a jQuery Mobile web site