Course Title:  Introduction to JavaScript

Course Description:
Add interactivity and flexibility to Web sites with this powerful object-based scripting language. You will create scripts that work with HTML forms, frames, and multiple windows, and create exciting rollover effects on your Web pages.

Course Prerequisite(s):
HTML and Cascading Style Sheets. Basic knowledge of scripting helpful, but not necessary.

Course Objectives:
Be proficient in JavaScript Scripting. Understand basic programming concepts. Use XHTML. Understand the difference between client side and server side programming. Understand the web browser Document Object Model (DOM). Be able to use HTML with client-side scripting to produce dynamic web sites.

Student Expectations:
Create a website at home or at work to apply what you learn in class.

Textbook(s):
Murach's JavaScript and DOM Scripting
Publisher: Murach; Author: Harris; ISBN: 978-1890774554

Certification Notes:
This class is a Core Course for the Web Master Certification.

Next Class Possibilities:
Advanced JavaScript & Dynamic HTML (DHTML)
Intro to PHP and MySQL

Lesson Plan – by week or session
Session 1:  Introduction to Web Development and JavaScript
How to code in JavaScript application
How to test and debug a JavaScript application
Session 2:  A crash course in XHTML
A crash course in CSS
Session 3:  How to get input and display output
How to work with numbers, strings, and dates
Session 4:  How to code control structures
How to create and use arrays
Session 5:  How to create and use functions
How to create and use objects
Session 6:  How to use regular expressions, handle exceptions, and validate data
Basic DOM scripting

Session 7:
- Advanced event handling
- Advanced DOM manipulation

Session 8:
- How to script CSS
- How to script tables and forms

If time allows:
- Animation with DOM scripting
- How to control the web browser
- How to use JavaScript libraries