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 (2nd Edition)
by Mary Delamater and Zak Ruvalcaba, 978-1890774851

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

Next Class Possibilities:
Advanced JavaScript & jQuery
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

Course Sessions: listed are a guideline to indicate all topics that will be covered during your course. Do not plan your personal calendar based on these sessions. Your instructor will give you a calendar for your class that will indicate specific topics, assignments, and days.

Method of Evaluation: Unless otherwise stated, course completion is evaluated on the basis of attendance. Students must be in attendance 90% of the class time in order to be considered a successful completer of the course.

Students must be in attendance 90% of each course in a certificate series for successful completion and to earn a certificate as specified.

Students must complete all courses (core and no. of elective courses needed) to complete a certificate series within two years from start date of the first course taken.

Americans with Disabilities Act: Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal opportunity. It is the student’s responsibility to contact the ACCESS office, SCC-G200 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current Collin Student Handbook for additional information.
http://www.collin.edu/studentresources/personal/studenthandbook.aspx