Master Course Syllabus
CWB 2005 Client-side Scripting: (Software)

Purpose of Document

This document contains important information about this course's objectives. It may be helpful for you to retain a copy for your records, along with the class specific syllabus. This document will be especially helpful if you decide to later change your course of study.

Pikes Peak State College and the Colorado Department of Higher Education have determined that graduates should have a broad range of learning skills as well as discipline related skills. Both types of skills are detailed below.

Course Description

Explores the client-side programming skills necessary to create dynamic web content using a markup embeddable and procedural scripting language executed on the client web browser.
Min Credit: 3

Required Course Learning Outcomes:

1. Incorporate client-side scripts into markup documents using embedded scripts, external script files, and libraries.
2. Use programming structures to create dynamic web page content by incorporating into scripts.
3. Reconfigure web pages using the Document Object Model (DOM).
4. Evaluate the validity of form input.
5. Distinguish the content, presentation, and behavior of web documents using markup language, style language, and client-side scripting language.
6. Incorporate existing, proven scripting libraries into web pages to leverage existing functionality.

Required Topical Outline:

I. Introduction to syntax, semantics, objects and methods/functions
II. Programming principles including control structures, operators, and data types
III. Dynamic modification of pages
    A. Variables
    B. Iteration
    C. Decisions
    D. Functions
    E. Arrays
    F. Objects
IV. Web forms including enhancement, validation, and handling form data

V.   Working with the Document Object Model (DOM)
VI.   Working with data in strings and arrays
VII.   Managing state information and security
VIII.   Asynchronous retrieval of relevant data from a server to dynamically update a page