Community College of Beaver County

SYLLABUS

Course Name: **Web Scripting Languages**   Course Number: **CISW101**
Semester: **Fall 2013**

Pre-Requisite: **None**
Co-requisite:. **BD160 Visual BASIC I**
          Or permission of the Instructor or the Director.

Credits: **3**

I.   Course Description:

This course is designed to teach students the concepts and techniques used in creating Web Applications using Web Scripting Languages. The students will learn how to create interactive Client/Server Web applications using HTML, CSS, JavaScript, and PHP in Linux environment. Topics include the role of scripting languages on the Web; working with variables; functions and events; expressions and operations; decision-making; repetitions; dynamic HTML and animation, built in functions in scripting languages, and introduction to Client/Server Web Application Development using LAMP Stack.

II.   Objectives

The student will be able to:
  ➢ Discuss the role of scripting languages in the Web.
  ➢ Discuss how to integrate Script Languages and HTML.
  ➢ Create JavaScript, and PHP applications using Pop-up Windows, and Scrolling Messages.
  ➢ Create JavaScript, and PHP applications using Validating Forms.
  ➢ Create JavaScript, and PHP applications which use DHTML, XML, and CSS to enhance web pages.
  ➢ Create JavaScript and PHP applications which use strings, numbers, and operators
  ➢ Create JavaScript and PHP applications which use conditional statements.
  ➢ Create JavaScript and PHP applications which use subroutines and functions.
  ➢ Create Web Applications in Linux environment.
  ➢ Gain skills in using Linux Operating System.
  ➢ Gain skills in Web Application development using LAMP Stack.

III.   Topics to be Covered

  • *Introduction to Linux Operating System*

- *Internet and Web and protocols*
- *HTML, DHTML, XML, HTML5*
- *Introduction to Scripting Languages using JavaScript*
- *Integrating JavaScript and HTML*
- *Integrating PHP and HTML*
- *Creating Pop-up Windows, in both JavaScript and PHP*
- *Validating Forms in both JavaScript and PHP*
- *Working with Numbers and Operators, in both JavaScript and PHP*
- *Controlling Program Flow, in both JavaScript and PHP*
- *Information Extraction and manipulation using the built in functions in, in both JavaScript and PHP*
- *Introduction to Client and Server Applications using PHP*

IV. Laboratories:
A. N/A

V. Texts: No Textbook is required for this Course.
A. Various web sites which are tutorial sites for HTML, DHTM, XML, JavaScript, and PHP will be used for this Course.

B. Instructor will provided the student with sample HTML, JavaScript and PHP sample applications.

VI. Materials and Equipment
A. **College owned:**
- **Hardware:**
  - PCs with connectivity to Internet via LAN.
  - Permission to Linux Operating System in the Class

B. **Student owned:**
- **Hardware and Software:**
  - **External Linux Server configured by CCBC's IT Department.** This custom External Linux Server will be available on through CCBC's IT Department or Bookstore.
  - About 8 Gig, Jump drive.
  - PC with Windows 7, IE 8, and a Fast Internet Connection.

VII. Bibliography
A. **What is Web Programming and Scripting Languages**
http://www.w3schools.com/web/default.asp

http://en.wikipedia.org/wiki/Scripting_language
http://www.objs.com/survey/lang.htm

B.   HTML/DHTML/XML, CSS
http://www.w3schools.com/html/default.asp
http://www.w3schools.com/dhtml/default.asp
http://www.w3schools.com/xml/default.asp
http://www.quackit.com/html/tutorial/
http://www.w3schools.com/css3/default.asp

C.   JavaScript
http://www.w3schools.com/js/default.asp
http://www.javascriptkit.com/
http://www.quackit.com/javascript/tutorial/

Javascript, 5th Edition
By: Don Gosselin
ISBN-13: 978-0-538-74887-2
ISBN-10: 0-538-74887-7
Publisher: Course Technology, Cengage Learning
(www.CengageBrain.com)

D.   PHP
http://www.w3schools.com/php/default.asp
http://www.freewebmasterhelp.com/tutorials/php
http://www.quackit.com/php/tutorial/
A Web-Based Introduction to Programming, Second Edition
By Mike O'Kane
ISBN: 978-1-59460-844-5
Carolina Academic Press, Durham, North Carolina

E.   Programming Using LAMP Stack
 http://www.plaveb.com/an-introduction-to-lamp-technology-and-its-benefits
http://en.wikipedia.org/wiki/LAMP_%28software_bundle%29
http://stackoverflow.com/questions/4667812/getting-started-with-lamp-web-application-using-vista-notebook
http://www.softwebstudios.com/lamp.php?nav=lamp

VIII.   Methods of Evaluation
1. **Weekly Projects:** 55% of the Total Points
2. **Mid-Term Project:** 15% of the Total Points
3. **Final Project:** 20% of the Total Points
4. **Class Participation:** 10% of the Total points

5. Due Date Policy:
A. Weekly Projects:
- If submitted on due date will receive **full** points.
- If submitted passed due date will be assessed with **1 point** penalty for **each day** passed the due date.

B. Mid-Term Project & Final Project:
- If submitted on due date will receive **full** points.
- If submitted passed due date will be assessed with **10 points** penalty for **each day** passed the due date.

No Project will be accepted after the last day of the Semester.

IX.   Grading Scale:
93% - 100%   A
92% - 85%   B
84% - 71%   C
70% - 60%   D
Below 60%   F

X. Instructor: Heidie G. Hutchinson
Office: Room 4022
Science and Technology Building
CCBC Main Campus

E-mail: Use **ONLY** CCBC's Blackboard, Tools**,** Messages, New Message**,** to communicate with me (Hutchinson, Heidie - Instructor) via E-mail.

Phone: 724-480-3547

Office Hours: See Blackboard, Faculty Information

XI. Statement on Academic Dishonesty:
Academic dishonesty occurs when a student represents words or ideas as their own, shares exam questions or answers with others without the instructor's permission, or presents an artifact produced by another (whether hand-made or computer generated) as their own. Academic dishonesty also occurs when a student assists another student in pursuing the above activities. Further information about academic dishonesty, including penalties, is included in the student handbook.

XI. Attendance Policy:
The course ascribes to the attendance statement found in the college catalog.

XII. Tuition Refund Policy of CCBC

Students withdrawing are eligible for tuition refunds as follows:

100% refund prior to completion of 20% of the total number of weeks designated for the semester session.
No refund after completion of 20% of the weeks designated for the semester session.
100% refund if class is canceled by the College.
Refer to the Academic Calendar on the College website for the specific completion dates for tuition refund.