A. Protocol

Course Name: Web Programming I
Course Number: CIS 330
Credits: 3
Prerequisites: CIS 220 with a C- or better
Maximum Class Size (face-to-face): 35
Maximum Class Size (online): 35
*Justification for online class size is due to the highly-technical nature of the course.

B. Objectives of the Course:
Upon completion of this course the student will be able to:

a. Design, create, and evaluate a Web page with tables, a Web page with forms and a Web site using cascading style sheets.
b. Describe the role that client-side scripts play in validating user inputs in data-based Web pages.
c. Create and debug client-side scripts to validate HTML form inputs.
d. Use client-side scripts to create and read cookies.
e. Use client-side scripts to change the page that appears in an existing browser window and open a new browser window.

C. Catalog Description:

This course is designed for the Computer Information Systems major. It provides the student with a thorough understanding of HTML, in order to enable the student to create Web pages and Web sites using HTML. It also provides the student with a thorough understanding of at least one client-side scripting language, in order to enable the student to begin creating data-base driven Web sites. Students are required to write and test Web pages and Web sites that use client-side scripts. Prerequisite: CIS 220 Application Programming II with a C- or better. Three credits.

D. Outline of the Course:
1) Creating and testing basic HTML documents
2) Adding hypertext links to a Web page
3) Designing a Web page with fonts, colors, and graphics
4) Designing a Web page with tables
5) Creating Web page forms
6) Working with cascading style sheets
7) Creating a multimedia Web page
8) Introduction to Web database programming
   a. The architecture of the World Wide Web
   b. Communication protocols and Web addresses
   c. Creating database-driven Web sites Network Terminology
9) Introduction to client-side scripts
   a. Referencing HTML document objects
   b. Creating a client-side script
   c. Displaying script error information
   d. Creating and using variables
e. Using global functions
f. Decision, control and looping structures Networking Models

10) Using client-side scripts to enhance Web applications
   a. Using client-side scripts to validate HTML form inputs
   b. Using arrays to reference form elements
   c. Displaying messages in client-side scripts
   d. Using Client-Side scripts to create cookies
   e. Using scripts to display different Web pages and open new browser windows

E. Teaching Methodology:

1) Traditional Classroom Methodology

   This course will be taught using some lecture/discussion method followed with a majority
   of class time using hands-on lab activities on the presented concepts. Some cooperative
   group method will be employed during appropriate sections of the course.

2) Online Methodology

   This course will be taught using a variety of methods including lecture videos, activities,
   group collaborative learning, and discussion boards.
   Quality Matters™ Statement – The online course follows the standards of the Quality
   Matters™ rubric. An online homework system is required in this course.

F. Text

   There are a vast array of texts available. Below is a list of possible texts.

   Barksdale, Karl and E. Shane Turner. HTML and JavaScript BASICS, 4th ed.,
   Course Technology, 2011.

   Dietel, Paul J. JavaScript Fundamentals I and II LiveLessons Bundle, Prentice
   Hall, 2010.

   Dietel, Paul J. and Harvey M. Dietel. JavaScript for Programmers, Prentice Hall,
   2009.


   Technology, 2011.

G. Assessment Activities:

1) Traditional Classroom Assessment

   Various assessment methods are used, at the discretion of the instructor, and can include
   exams, quizzes, tutorials, homework assignments, programs/projects/labs. An online
   homework submission system is used in this course.

2) Online Assessment

   Various assessment methods are used, at the discretion of the instructor, and can include
   exams, quizzes, tutorials, homework assignments, programs/projects, wikis, online
   journals and labs. An online homework system is required in this course.
H. Accommodations for Students with Disabilities:

OSD
Revised December 2012

STUDENTS WITH DISABILITIES

Students with disabilities:

- Reserve the right to decide when to self-identify and when to request accommodations.
- Will register with the Office for Students with Disabilities (OSD) \textit{each semester} to receive accommodations.
- Might be required to communicate with faculty for accommodations, which specifically involve the faculty.
- Will present the OSD Accommodation Approval Notice to faculty when requesting accommodations that involve the faculty.

Office for Students with Disabilities

Requests for approval for reasonable accommodations should be directed to the Office for Students with Disabilities (OSD). Approved accommodations will be recorded on the OSD Accommodation Approval notice and provided to the student. Students are expected to adhere to OSD procedures for self-identifying, providing documentation and requesting accommodations in a timely manner.

Contact Information:

- Location: Azorsky Building – Room 105
- Phone: (724) 938-5781
- Fax: (724) 938-4599
- Email: osdmail@calu.edu
- Web Site: www.calu.edu (search “disability”)

I. Supportive Instructional Materials, e.g. library materials, web sites, etc.

\textbf{Library Materials:}

Books located in the PILOT catalogs, library databases (Ebscohost, CIOS, Proquest, Lexis-Nexis) which include books, journals, magazines, and newspapers. Examples of holdings at the Louis L. Manderino Library are:


Oliver, Dick and Molly Holzschlag (1997). \textit{Teach yourself HTML 4 in 24 hours} 2\textsuperscript{nd} ed. Indianapolis, IN: Sams.net

Stauffer, Todd (1997). \textit{HTML Web publishing 6-in-1}. Indianapolis, IN: Que

Teague, Jason Crandford (1997). \textit{How to program HTML frames: interface design and JavaScript}. Emeryville, CA: Ziff-Davis


Moncur, Michael (1999). *Sams teach yourself JavaScript 1.3 in 24 hours*. Indianapolis, IN: Sams

Information for Course Proposals

J. Proposed Instructors: Dr. Gina Boff, Dr. Gary DeLorenzo, Dr. Lisa Kovalchick, Dr. Tony Rodi or any other tenure-track CIS faculty from the Department of Mathematics, Computer Science and Information Systems.

K. Rationale for Course: Course already exists and being updated for Global Online delivery.

L. Specialized Equipment or Supplies Needed: None

M. Answer the following questions using complete sentences:

1. Does the course require additional human resources? No, the course is already being taught.

2. Does the course require additional physical resources? No. The current physical resources on campus can accommodate the teaching of this course.

3. Does the course change the requirements in any particular major? No.

4. Does the course replace an existing course? No, this course does not replace any existing courses.

5. How often will the course be taught? This course will be taught once every year.

6. Does the course duplicate an existing course in another Department or College? No.

7. What is the recommended maximum class size for this course? Recommended class size for this course is 35 for online sections, due to the highly-technical nature of the course.

N. If the proposed course includes substantial material that is traditionally taught in another discipline, you must request a statement of support from the department chair that houses that discipline. This course does not include substantial material from another discipline.

O. Please identify if you are proposing to have this course considered as a menu course for General Education. If yes, justify and demonstrate the reasons based on the categories for General Education. The General Education Committee must consider and approve the course proposal before consideration by the UCC. No; this course will not be offered on the GenEd menu.