A. Protocol

Course Name: Web Programming I
Course Number: CIS 332
Credits: 3
Prerequisite: CIS 330 Web Programming I with a C- or better
Prerequisite/Co-requisite: CIS 322 Data Base Application Development

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. Differentiate between client-side and server-side Web programming.
b. Create server-side scripts to retrieve, display and insert database data on Web forms.
c. Use server-side scripts to validate user inputs.
d. Create an integrated Web application.

C. Catalog Description:

This course introduces the student to server-side technologies. Students are required to write and test database driven Web sites that use both client-side and server-side scripts. Prerequisite: CIS 330 Web Programming I with a C- or better. Prerequisite/Co-requisite: CIS 322 Data Base Application Development. Three credits.

D. Outline of the Course:

1) Review of database concepts
   a. Overview of relational databases
   b. Database management systems
   c. Retrieving database data
   d. Performing query operations on groups of records
   e. Inserting, updating, and deleting database data
2) An introduction to Web servers
   a. Web server operation
   b. General server characteristics
3) Accessing and referencing Web forms
4) Introduction to server-side programming
   a. Variables and assignment statements
   b. Creating procedures
   c. Working with complex expressions
   d. Decision, control and looping structures
5) Creating dynamic Web pages using server-side processing
6) Creating event handlers in Web forms
7) Retrieving and displaying database data in Web forms
8) Editing and inserting data in Web forms
9) Validating user inputs using server-side scripts
10) Creating an integrated Web application
a. Displaying different Web forms within an integrated Web application
b. Sharing data values across multiple Web forms

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.


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) 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.

**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:

- Waymire, Richard (1999). Teach yourself Microsoft SQL server 7.0 in 21 days. Indianapolis, IN: Sams

A. Supportive Instructional Materials, e.g. library materials, web sites, etc.
Books located in the PILOT catalogs, library databases (Ebscohost, CIOS, Proquest, Lexis-Nexis) which include books, journals, magazines, and newspapers.
Information for Course Proposals

J. Proposed Instructors: Dr. Gina Boff, Dr. Gary DeLorenzo, Dr. Lisa Kovalchick 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.