Course Syllabus

Department: Computing Sciences
Date: November 2012

I. Course Prefix and Number: CSC 235
Course Name: Server-Side Scripting
Credit Hours and Contact Hours: 3 credit hours – 3 contact hours
Course Description Including pre- and co-requisites: This course will familiarize the student with different approaches for creating server-side scripts using common popular database driven website technologies. Successful completion of this course will allow the student to build, implement, and execute scripts that will create fully functional, interactive and dynamic Web applications. Included in the course will be developing web sites that depend on databases. Prerequisite: CSC222

Relationship to Academic Programs and Curriculum
This course is required in the Web and Multimedia Application Development advisement area for the AAS IT degree program.

II. Course Outcomes and Objectives

   Learning Outcomes
   Upon completion of the course the participant will be able to:
   A. Design basic databases
   B. Design and maintain interactive and dynamic Web applications
   C. Work with a variety of arrays, collections, and control structures in popular database driven web technologies
   D. Create cookies
   E. Debug a distributed web application

College Learning Outcomes Addressed by this Course:

☒ writing ☒ ethics/values
☐ oral communications ☐ citizenship
☒ reading ☐ global concerns
☐ mathematics ☐ information resources
☒ critical thinking ☒ computer literacy

III. Assessment Measures (Summarize how the College and student learning outcomes will be assessed): Student learning outcomes will be assessed through a variety of activities including the following:
1. Assignments: Programming Problems
   Hands on projects will assess skills in writing, reading, computer literacy, critical thinking (problem solving) and ethics/values. These skills will include good design standards and programming standards and best practices used in industry including written documentation, both internal and external to the source programs. Testing strategies will assess the ability to debug problems encountered in the problem solving and programming process.
2. Online text tests, given in a current online environment will assess the student’s ability to comprehend, interpret, analyze, and evaluate course content and reading materials. Chapter tests will
be given in a current online environment to encourage students to read the course materials. The tests will measure their comprehension of the course concepts as related to problem solving and programming.

3. In-class quizzes will assess student writing capabilities, and well-reasoned arguments.

4. Students will be required to complete an in-class final project that will assess reading, writing and problem solving skills.

IV. Methods of Instruction

Types of Course Materials

1. Textbook: none. Websites are used to provide reference material, practice, and tutorials.

Methods of Instruction

Lecture, discussions, demonstrations, hands-on experiences

V. General Outline of Topics Covered

Introduction to Active Server Pages
- History
- How they work
- Client-side scripting vs. server-side

Introduction to Relational Database Design

Introduction to SQL
- History SQL
- DML
- DDL

Review of HTML and CSS

Cold Fusion
- Single page database driven website
- Multiple page database driven website
- Managing state

PHP
- Single page database driven website
- Multiple page database driven website
- Managing state

ASP.Net
- Single page database driven website
- Multiple page database driven website
- Managing state

Debugging a web application

Web Services