

Date Adopted: \_\_\_\_\_

Date Reviewed: Aug 2015

Date Revised: Aug 2015

## **CIS 209      Advanced Web Development**

### **I. CIS 209 Advanced Web Development – 3 Semester Hours**

#### **II. Course Description**

This course is an advanced Web design course emphasizing the use of scripting languages to develop interactive Web sites. Upon completion students will be able to create data driven Web sites.

#### **III. Prerequisite**

CIS 207 or equivalent background

#### **IV. Textbook**

Textbook: Internet Programming with VBScript and JavaScript

Publisher: Course Technology

Author: Kalata

#### **V. Course Objectives**

- A. The student will understand the role of scripting languages in the development of distributed client/server applications for the Internet and the World Wide Web.
- B. The student will be able to use scripting to write, debug, and execute Web applications.
- C. The student will understand the use of objects, properties, and events in the development of Web applications.

#### **VI. Course Outline of Topics**

- A. The student will understand the role of scripting languages in the development of distributed client/server applications for the Internet and the World Wide Web.
  1. The student will be able to explain how to incorporate scripts into Web applications.
  2. The student will be able to explain the use of object-oriented programming techniques in Web page designs.
  3. The student will be able to explain how Web pages access data storage.
- B. The student will be able to use scripting languages to write, debug, and execute Web applications.
  1. The student will be able to use scripting language control structures, functions and procedures.
  2. The student will be able to use the Request and Response objects.
  3. The student will be able to maintain the state between the client and server.
  4. The student will be able to connect to and use databases.
- C. The student will understand the use of objects, properties, and events in the development of Web applications.
  1. The student will be able to use scripting library objects.
  2. The student will be able set object properties.
  3. The student will be able to use object methods.

#### **VII. Evaluation and Assessment**

Evaluation and assessment will be determined by the instructor and specified on the instructor's class syllabus. Grades will be based upon following scale: A = 90 – 100%, B = 80 – 89%, C = 70 – 79%, D = 60 – 69%, and F = below 60%.

### **VIII. Attendance**

Students are expected to attend all classes for which they are registered. Students who are unable to attend class regularly, regardless of the reason or circumstance, should withdraw from that class before poor attendance interferes with the student's ability to achieve the objectives required in the course. Withdrawal from class can affect eligibility for federal financial aid.

### **IX. Statement on Discrimination/Harassment**

The College and the Alabama State Board of Education are committed to providing both employment and educational environments free of harassment or discrimination related to an individual's race, color, gender, religion, national origin, age, or disability. Such harassment is a violation of State Board of Education policy. Any practice or behavior that constitutes harassment or discrimination will not be tolerated.

### **X. Americans with Disabilities**

The Rehabilitation Act of 1973 (Section 504) and the Americans with Disabilities Act of 1990 state that qualified students with disabilities who meet the essential functions and academic requirements are entitled to reasonable accommodations. It is the student's responsibility to provide appropriate disability documentation to the College. The ADA Accommodations Office is in FSC 305 (205-856-7731).