California State University, Long Beach
College of Business Administration

Department of Information Systems

IS 645 STANDARD COURSE OUTLINE

I. General Information

Course Number:	IS 645
Course Title:	Internet Applications in Business
Units:	3
Prerequisite:	IS 640
Course Coordinator:	Ying Liu
SCO prepared by:	Ying Liu
Date prepared/revised:	March 22, 2013

II. Catalog Description

Concepts of Web protocols and Web Services. Client side and server side Web application development concepts. HTML, CSS and JavaScript development. Web site design and development issues and best practices. Cutting edge Web technology and development tools.

Letter grade only (A-F). Lecture, hands-on software project and case studies.

III. Curriculum Justification(s)

This course is designed to teach student (1) development skills in the areas of Internet technology and Web application development; (2) team work skills using source control system and team-based development; (3) critical thinking skills in business and system requirement analysis and design.

IV. Course Objectives

The course covers following topics:

- Web protocols include HTTP and HTTPS
- HTML concepts
- Cascade style sheet (CSS) theories and practices
- JavaScript and jQuery programming skills
- Client side and server side development skills.

Upon the completion of this course students will be able to design and develop Web-based business application using HTML, CSS, JavaScript and the cutting-edge service side Web development tools.

V. Outline of Subject Matter

- Web computing and HTTP(S) protocols
- Web application development process
- HTML concepts
- Cascade Style Sheet (CSS)
- JavaScript programming language
- Client-side JavaScript framework
- One backend framework such as Node.js, ASP.Net, JSP or PHP
- Data-driven Web development

VI. Methods of Instruction

The course will be taught primarily by formal lectures in a computer lab. Presentation slides, hands-on demonstrations and computer labs are used in a typical class session. Due to the technical contents and the complexity of Application development, students are required to read the course material before the class. Homework and course project should be assigned to students to give them plenty of practices in the technical topics covered by the class.

Each instructor can decide on the structure of their exams. Multiple choices, short essay questions, program assignments or a mixture of different forms can be used to measure student performance.

Due to the rapid changes of Web technology and the abundance of free online resources, each instructor can decide on the textbooks. Examples of the textbooks are:

JavaScript & jQuery: The Missing Manual
Author: David Sawyer McFarland
Pages: 540 pages
Publisher: Pogue Press; 2nd edition
Date: October 28, 2011
ISBN-10: 1449399029
ISBN-13: 978-1449399023

Beginning ASP.NET MVC 4
Author: Jose Guay Paz
Pages: 400 pages
Publisher: Apress Press; 1st edition
Date: June 26, 2013
ISBN-10: 1430257520
ISBN-13: 978-1430257523

VII. Instructional Policies Requirements

This course follows the University policies on Final Course Grades, Grading Procedures, and Final Assessments (PS 05-07), Attendance (PS 01-01), Course Syllabi (PS 04-05), Final Course Grades, Grading Procedures, and Final Assessments (PS 05-07), and Withdrawals (PS 02-02 rev). Following are some special considerations for this course:

A. Assessment Criteria

Homework

Students are encouraged to discuss their class work and homework assignments together. However, after the discussion, each of you should work on your own homework independently from scratch.

Quizzes and Exams

Students need to take the mid-term exam (required) and the final exam (required).

Projects

Instructors are strongly encouraged to assign comprehensive course project (individual or group) that requires problem solving skills, the understanding of the course materials and the use of development tools.

B. Required Statement

In compliance with university policy: Final grades will be based on at least three, and preferably four or more, demonstrations of competence. In no case will the grade on any class tests count for more than one-third of the course grade.

C. Attendance, Withdrawal, Late Assignments

Students are expected to attend courses and turn in assignments on time. Specific attendance and late assignment policies are up to each individual instructor's discretion.

D. Disabilities

Students with disabilities are responsible for notifying their instructor as early as possible of their needs for an accommodation of a verified disability. A student with a disability is urged to consult with Disabled Student Services as soon as possible in order to identify possible accommodations to enhance academic success.