

Department of Information Systems
IS 445 STANDARD COURSE OUTLINE

I. General Information

Course Number:	IS 445
Course Title:	Internet Applications in Business
Units:	3
Prerequisite:	IS 301, IS 343 or IS 340
Course Coordinator:	Ying Liu
SCO prepared by:	Ying Liu
Date prepared/revised:	October 5, 2012

II. Catalog Description

Design, management, and applications of Internet-based electronic business transaction systems. Special emphasis on Web home page design. Internet applications in functional areas including accounting, finance, marketing, and management. Intranet and groupware. Lecture, hands-on, software project and case studies. Letter grade only (A-F)

III. Curriculum Justification(s)

This course is designed to teach student (1) quantitative and technical skills in the areas of Internet technology and Web application development; (2) team and interpersonal skills by team-based discussion and using collaborative development tools; (3) critical thinking skills in business analysis and Web application design.

IV. Course Objectives

The course covers many aspects of web application development:

- Basic concepts of WWW and WWW architecture from a technical perspective.
- Basic and advance concepts of HTML and XHTML.
- Concepts and applications of CSS
- Concepts and applications of Javascript and jQuery
- Developing Web applications using a server-side Web framework such as ASP.NET or Node.js

Upon the completion of this course students will be able to write HTML/XHTML pages, format the page with CSS style sheet, add interactivity with Javascript and create database-driven dynamic web site using a server-side Web framework.

V. Outline of Subject Matter

- Web concept and HTTP protocol
- Web application development process
- HTML elements and HTML5 standards
- Cascade Style Sheet (CSS)
- JavaScript programming language
- Browser-side framework such as jQuery
- Backend framework such as Node.js, ASP.Net, JSP or PHP.
- Database access framework such as ADO.NET.

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. An example of the used textbook is

Title: Internet and World Wide Web How To Program, 5/E
Author: Harvey Deitel, Abbey Deitel
ISBN-10: 0132151006
ISBN-13: 9780132151009
Publisher: Prentice Hall
Copyright: 2012
Format: Paper; 992 pp
Published: 11/09/2011

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.