CS 350/491 – 940
Web Application Development
Fall 2015

Instructor: Shahriar "Nick" Rahimi

- **Office:** Faner 2136
- **Office Hours:** MW (8-10) am & (12- 1) pm or by appointment.
- **E-Mail:** nick@cs.siu.edu
- **Course Web Site:** https://online.siu.edu/

Email is the best way to contact me. I usually respond to emails within 24 hours during the week and 48 hours on weekends.

TEXTBOOK AND MATERIALS

Textbook:
Sebesta, Robert W. Programming the World Wide Web. Addison Wesley, 8th Edition, 2013.
ISBN: 9780133775983

Graphical applications for Web Design such as Dreamweaver, Microsoft Expression, Microsoft FrontPage and etc. are not allowed.
Students will write their own code using Text Editors such as: Notepad++, Notepad and web Browser like Chrome, Firefox, IE.

COURSE DESCRIPTION

A comprehensive introduction to languages and tools used to create client side and server side Web applications. Topics include, but are not limited to, markup languages, scripting languages, dynamic web pages, processing forms, server-side technologies, and database access.

Generally, only one set of material are presented to the students of both CS-350 and CS-491. But higher standards for CS-491 students will be set, e.g., by giving more or higher demanding projects, extra questions in exams, and additional subjects for self-study.

PREREQUISITES

CS 202 and CS 221 with a grade of C or better.

COURSE OBJECTIVES

Upon successful completion of this course, the student will be able to:
- Understand fundamental concepts related to building scripts used for interactive web-based applications
- Use a variety of current technologies for developing interactive web-based applications
- Understand terminology used in web site development
- Have an awareness of current and future trends in web site development
- Explain the purpose and usage of web site development
- Describe the development, implementation, and maintenance of web-based application software
- Work successfully in a team environment
- Critically examine and evaluate web-based environments
- Give professional presentations of web development projects

GRADING AND ASSIGNMENTS

The criteria for each assignment will be posted as will the grading scheme for that assignment. Your grade is based on the total number of points you earn, and you earn points with each assignment (see below). We will have graded activities every week. The due dates will be announced when I post the assignments. Other assignments may be added.

Assignments	Percentage of the final grade
Labs	70%
Two Exams	30%
TOTAL	100%

Lab assignments and Projects must be submitted on or before the due date. Late Lab assignment submissions will lose 10% for each day late.

Grading is based on 100 possible points with letter grades being assigned as follows:

Grade	Points
A	90-100
B	80-89
C	70-79
D	60-69
F	59 or less

Online Participation

You are expected to **regularly review the content of the course D2L website**, read the assigned texts and other course activities each week. Lab Assignments should be posted by the due dates. If an emergency arises that prevents you from participating in class, please let your instructor know as soon as possible.

Attendance Policy

Attendance will be counted as visiting the course D2L page, participating in the discussions and having posted an assignment during that week of the session. A class week is defined as the period of time between Monday and Sunday. The course and system deadlines are all based on the Central Time Zone.

Email Communication

You are responsible for monitoring emails from the instructor (nick@cs.siu.edu). I expect that you check your emails (the email account registered under your Salukinet account) multiple times daily for important messages from the department or your instructor.

SIUC Grade Policies:

Incomplete (INC): An INC is assigned when, for reasons beyond their control, students engaged in passing work are unable to complete all class assignments. Students are required to apply, in writing, to the instructor for an INC. If the application is approved by the faculty member and should the student fail to complete the course within the time period designated by the faculty member, not to exceed one year, or graduation, whichever occurs first, the Incomplete will be converted to a grade of F and the grade will be computed in the student's grade point average. WF: Failure. A grade of WF may be awarded to students who do not officially withdraw from class, cease attending the class, and fail to complete requirements for the course. When awarding a WF, the faculty member will note the date/time of the student's last date of attendance/participation.

Course Drops: Students officially drop courses through the program change process. This process is done with the Program Advisor. Unless a student has processed an authorized drop from the course by the published Add/Drop Date, the student will not be allowed to drop the course. It is the student's responsibility to ensure that the drop process is officially completed. It is probable that a student who does not drop by the Add/Drop Date, but stops attending/participating during the second half of the course, will be awarded a grade of WF.

Academic Dishonesty Policy

Students may be subject to disciplinary proceedings resulting in an academic penalty or disciplinary penalty for academic dishonesty. Academic dishonesty includes, but is not limited

to, cheating on a test, plagiarism, or collusion. **References to the *Student Conduct Code,* (e.g. plagiarism policy) available at the following link: http://policies.siu.edu/documents/StudentConductCodeFINALMay32011.pdf**

Student Assistance:

1. To obtain academic accommodations for this course, students with disabilities should contact Disability Support Services and the instructor as soon as possible. Disability Support Services is located at Woody Hall B-150, DSSsiu@siu.edu, 453-5738, or visit the website at http://www.siu.edu/~dss/.
2. For help with writing for this class or others, SIU's Writing Center provides a variety of services.
Visit the website at http://www.siu.edu/~write/

Tentative Course Outline (Subject to Change)

Week	Description	Assignment
1	Intro/ Fundamentals	Lab 0
2	HTML/HTML5 Review	Lab 1
3	CSS Review	Lab 2 & 3
4	CSS Layout	Lab 4
5	CSS Animation	Lab 5
6	Intro to JavaScript	Lab 6 & 7
7	Fall Break, JavaScript and HTML Documents	Lab 8
8	JavaScript and Dynamic Documents	Lab 9
9	JavaScript and Dynamic Documents	Lab 10
10	Exam 1	
11	Introduction to XML	Lab11
12	Introduction to PHP	Lab 12 &13
13	Introduction to PHP	Lab 14
14	PHP and Database Access	Lab 15
15	Thanksgiving break, Introduction to AJAX	Lab 16
16	Introduction to AJAX	Lab 17
17	Final Exam	Final Exam