Objective: To explore some of the modern web development trends and provide a solid foundation for further exploration of web based technologies as they emerge. To use client-side, server-side, and database programming to create web sites that are well designed, functional and secure.

Prerequisite: CS 150 – Introduction to Computing II (C or better)

Textbook: “Fundamentals of Web Development” by Randy Connolly, Ricardo Hoar

Course website: The course website is the instructor’s web site at www.cs.siue.edu/~stornar. The site contains pertinent course information, including syllabus, notes, code, schedule and assigned TAs.

Machine problems: These are individual efforts and will be coded individually outside of class. The mps are due at the end of the week on Fridays, by midnight.

Machine problems will be downloaded and uploaded using Moodle (classes.cs.siue.edu).

Late policy: To receive full marks on each mp they must be submitted by the due date. Any submission that is past due will receive no credit. In cases were access to Moodle is unavailable due to network issues, the mp should be emailed to the assigned TA or the instructor.

Make-up policy: In order to be considered for a make-up, a student must be proactive and not reactive. Students should inform the instructor of any scheduled absence or difficulty in meeting the deadline, in advance (proactive) not after the fact (reactive). On special unforeseen occasions such as a medical emergency, family hardship, natural disaster or anything that is out of a student’s control, the instructor should be notified as soon as possible and proper documentation should substantiate the absence. The instructor will have the final say in all such decisions regarding make-ups and assessed penalties if applicable.

Development Stack: You will use WAMP (www.wampserver.com/en/ for Windows users) or MAMP (www.mamp.info/en for Mac users) to develop your solutions on your local machine. As an IDE you may choose any one you like, e.g. Xcode, NetBeans or Eclipse.

Support services: Students who believe they may need accommodations in this class are encouraged to contact the office of Disability Support Services as soon as possible. It is the students’ responsibility to alert the instructor to SIUE sanctioned accommodations.

Student attendance: Student attendance is expected and students should come to class prepared by reading all assigned chapters/notes. In case of an absence, students are responsible for all material covered and announcements made during their absence. An attendance sheet will be passed around each time, to be used by the instructor for administrative purposes.

Class decorum: Class time is valuable and as such each student must behave appropriately with out causing a distraction to their peers or the instructor. Students should honor this rule, else they may be asked to leave and waive all rights to any assessment make-ups.

Academic misconduct: Academic honesty is a serious issue at SIUE, in the School of Engineering, in the Department of Computer Science, and with this instructor. Penalties for dishonest behavior will be severe. Even a single occurrence of plagiarism of English text, or program code, within a graded activity (e.g., homework, project, or exam) is grounds for academic discipline and a possible letter grade of ‘F’ in the course.

Expectations: Learning is an active process not a passive one, so as an Instructor I expect students to come to class prepared, having read all relevant material (book, notes, code) before as well as after class meetings. Don’t be afraid to ask questions or seek answers. Have an open mind and a willingness to learn and adopt alternative methodologies and practices. It takes two parties to transfer knowledge, the instructor and the learner. If one is absent the other suffers.

Assess: [ mp: 1000 pts ] [ q: 110 pts ] [ f: 0 ] 100 pts ] - Course assessed at 1000 pts.

Grade: [ A >= 900 ] [ B >= 800 ] [ C >= 700 ] [ D >= 600 ] [ F < 600 ]

Policy: Final: optional (replaces quiz score); mp: 900 pts max; q: 100 pts max; lowest mp, q dropped.

Grade disputes must be handled within a week after an assessment has been returned to students. No grade change will be made after a week.
Reading Assignments

Ch01 - How the Web Works
Ch02 - Introduction to HTML
Ch03 - Introduction to CSS
Ch04 - HTML Tables and Forms
Ch05 - Advanced CSS: Layout
Ch06 - Javascript: Client-Side Scripting
Ch07 - Web Media
Ch08 - Introduction to Server-Side Development with PHP
Ch09 - PHP Arrays and Superglobals
Ch10 - PHP Classes and Objects
Ch11 - Working with Databases
Ch12 - Error Handling Validation
Ch13 - Managing State
Ch14 - Web Application Design
Ch15 - Advanced Javascript & JQuery
Ch16 - Security

Teaching Units

1 [1] - HTML5 (c01, 02, 04, How To: Unix)
2 [1] - CSS (c03, 05)
3 [4] - JS (c06, 12, 15)
4 [3] - PHP (c08, 09, 10, 12)

5 [1] - SQL (How to: RDBs)
6 [3] - MySQL (c11)
7 [2] - ESD(c07, 12, 13, 14, 16)

CS234.001 - TR

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