San José State University
Department of Computer Science
Spring 2018
CS 174 – Server-side Web Programming

Course and Contact Information

Instructor:	Ramin Moazeni, PhD
Class Hours:	TTh: 7:30AM - 8:45AM
Office Hours:	TTh: 7:00PM – 7:30PM, DH 282
Email:	Ramin.Moazeni@sjsu.edu
Classroom:	MH 422

Prerequisites: CS 46B *Introduction to Data Structures* with a grade of C- or better, or instructor's consent.

Course Description

Development and deployment of multi-tier web-based applications. Introduction to HTML 5, CSS 3, JavaScript, jQuery, AngularJS, AJAX, PHP, XML, Node.JS, web services and RESTful APIs, and database access.

Learning Outcomes

By the end of this course, a student should be able to:

CLO1 -- Write HTML documents containing standard HTML elements including forms, tables, client-side scripts, and server-side scripts.
CLO2 -- Write schemas, DTDs, and style sheets for XML documents.
CLO3 -- Write server-side scripts that process HTML forms.
CLO4 -- Write client-side scripts that validate HTML forms.
CLO5 -- Develop and deploy web applications that involve components, web services, and databases.

Required Texts

There are no required books for this class.

Recommended texts for self-study

Learning PHP, MySQL & JavaScript: With jQuery, CSS & HTML5 by Robin Nixon
O'Reilly Media; 4 edition (December 14, 2014), ISBN-13: 978-1491918661

HTML5 and CSS3 All-in-One for Dummies by Andy
Harris 3 edition (January 7, 2014), ISBN: 978-1118289389

PHP and MySQL for Dynamic Web Sites: Visual QuickPro Guide by Larry Ullman
Peachpit Press; 4 edition (September 23, 2011), ISBN-13: 978-0321784070

JavaScript & jQuery: The Missing Manual by David Sawyer McFarland
O'Reilly Media; 3 edition (October 3, 2014), ISBN: 978-1491947074

Course Requirements and Assignments

SJSU classes are designed such that in order to be successful, it is expected that students will spend a minimum of forty-five hours for each unit of credit (normally three hours per unit per week), including preparing for class, participating in course activities, completing assignments, and so on. More details about student workload can be found in University Policy S12-3 at http://www.sjsu.edu/senate/docs/S12-3.pdf. Note that University policy F15-12 at http://www.sjsu.edu/senate/docs/F15-12.pdf states that "Attendance shall not be used as a criterion for grading."… "Students are expected to attend all meetings for the courses in which they are enrolled as they are responsible for material discussed therein, and active participation is frequently essential to ensure maximum benefit to all class members. In some cases, attendance is fundamental to course objectives; for example, students may be required to interact with others in the class. Attendance is the responsibility of the student."… "Participation may be used as a criterion for grading when the parameters and their evaluation are clearly defined in the course syllabus and the percentage of the overall grade is stated."

All the assignments and related documents must be handed in electronically. Programs that are handed in after the due date will not be accepted.

Assignments

The assignments are to be submitted on time. A penalty of 10% per day is applied to late submissions. No assignments will be accepted after a week past its due date.

Exams

- The exams are based on lectures, homework/lab assignments, and reading materials covered before the exam's date.
- Absolutely NO items may be shared during the exams, including books, notes, and calculators.
- Absolutely NO usage of cell phones during exams. Cell Phones must in off or silent mode and not within your reach.

Makeup exams will only be granted in case of documented medical emergency with an advanced notice to the instructor. If a student misses and exam without a legitimate excuse, a grade of zero will be recorded.

Grading Policy

Your individual class grade will be weighted as follows:

Programming assignments - 6	50%
Midterm	25%
Final	25%
Total	100%

A -- 90-100, B -- 80-89, C -- 70-79, D -- 60-69, F -- Below 60

University Policies

Per University Policy S16-9, university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc. will be available on Office of Graduate and Undergraduate Programs' Syllabus Information web page at http://www.sjsu.edu/gup/syllabusinfo/

CS 174, Server-side Web Programming, Course Schedule

Tentative course calendar

Week	Date	Item
1	January 25	Course Introduction
2	January 30 – February 1	HTML elements like lists, tables, links, and images
3	February 6 – February 8	HTML Stylesheet - CSS3
4	February 13- February 15	XML Basics, JSON
5	February 20- February 22	Javascript Introduction
6	February 27- March 1	Document Object Model (DOM)
7	March 6 – March 8	Javascript Advanced
8	March 13 – March 15	PHP Overview **Midterm Thursday, March 15**
9	March 20 – March 22	PHP Advanced, Forms, Sessions, Cookies
10	March 27 – March 29	**Spring Recess**
11	April 3 – April 5	AJAX
12	April 10 – April 12	NodeJS, ExpressJS
13	April 17 – April 19	JQuery, RESTful APIs
14	April 24 – April 26	Responsive Design, Search Systems
15	May 1 – May 3	HTML5
16	May 8 – May 10	AngularJS, Course Review
17	**May 21- 7:15am-9:30am**	**Final Exam Monday, May 21**