

# Server-side Web Programming Section 01

## CS 174

Fall 2023 3 Unit(s) 08/21/2023 to 12/06/2023 Modified 08/20/2023

### Contact Information

#### Instructor: Ritik Mehta

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#### Office Hours

Monday, Wednesday, 11:00 AM to 12:00 PM

Zoom: <https://sjsu.zoom.us/j/81853954290>

### Course Description and Requisites

Development and deployment of multi-tier web-based applications. Introduction to HTML, XML, enterprise design patterns, web services and database access.

Prerequisite: CS 46B (with a grade of "C-" or better); Computer Science, Applied and Computational Math, or Software Engineering Majors only.

Letter Graded

### \* Classroom Protocols

- Cheating will not be tolerated.
- Student must be respectful of the instructor and other students. For example, Disruptive or annoying talking.
- Turn off cell phones
- Class begins on time
- No make-up exams will be held

### Program Information

Diversity Statement - At SJSU, it is important to create a safe learning environment where we can explore, learn, and grow together. We strive to build a diverse, equitable, inclusive culture that values, encourages, and supports students from all backgrounds and experiences.

### Course Learning Outcomes (CLOs)

1. Write HTML documents containing standard HTML elements including forms, tables, client-side scripts, and server-side scripts.
2. Write server-side scripts that process HTML forms.
3. Write client-side scripts that validate HTML forms.
4. Develop and deploy web applications that involve components, web services, and databases.

## Course Materials

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There are no required books for this class. All the necessary material will be available on the class Canvas web page.

## Course Requirements and Assignments

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SJSU classes are designed such that in order to be successful, it is expected that students will spend a minimum of 45 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>.

Homework, Midterm and Final project are expected for this class. Homework is due on Canvas by class starting time on the due date. Each assigned problem requires a solution and an explanation (or work) detailing how you arrived at your solution. Cite any outside sources used to solve a problem. When grading an assignment, I may ask for additional information.

NOTE that University policy F69-24 at <http://www.sjsu.edu/senate/docs/F69-24.pdf> states that "Students should attend all meetings of their classes, not only because they are responsible for material discussed therein, but because active participation is frequently essential to insure maximum benefit for all members of the class. Attendance per se shall not be used as a criterion for grading."

## Grading Information

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### Criteria

Final Grade is based on:

25% Assignments

25% Exam 1

25% Exam 2

25% Final Project

### Breakdown

Semester grade will be computed as a weighted average of the 3 scores listed above.

No make-up tests or quizzes will be given and no late homework (or other work) will be accepted. Also, in-class work must be completed in the section that you are enrolled in.

Grade	Range	Notes
A	92 and above	
A-	90 - 91	
B+	88 - 89	
B	82 - 87	
B-	80 - 81	
C+	78 - 79	
C	72 - 77	

Grade	Range	Notes
C-	70 - 71	
D+	68 - 69	
D	62 - 67	
D-	60 - 61	
F	59 and below	

## University Policies

Per [University Policy S16-9 \(PDF\)](http://www.sjsu.edu/senate/docs/S16-9.pdf) (<http://www.sjsu.edu/senate/docs/S16-9.pdf>), relevant university policy concerning all courses, such as student responsibilities, academic integrity, accommodations, dropping and adding, consent for recording of class, etc. and available student services (e.g. learning assistance, counseling, and other resources) are listed on the [Syllabus Information](https://www.sjsu.edu/curriculum/courses/syllabus-info.php) (<https://www.sjsu.edu/curriculum/courses/syllabus-info.php>) web page. Make sure to visit this page to review and be aware of these university policies and resources.

## Course Schedule

This schedule is subject to change. Any change will be communicated via Canvas with fair notice.

When	Topic	Notes
08/22	Introduction	
08/24	Setting up a Development Server	
08/29	PHP Fundamentals	
08/31	PHP Fundamentals	
09/05	PHP Fundamentals	
09/07	PHP Fundamentals	
09/12	File Handling using PHP	
09/14	Introduction to MySQL	
09/19	Introduction to MySQL	
09/21	MySQL + PHP	
09/26	MySQL + PHP	
09/28	MySQL + PHP	
10/01	Exam 1 (Take-Home Due)	
10/03	MySQL + PHP	
10/05	Cookies, Authentication, and Sessions	
10/10	Cookies, Authentication, and Sessions	
10/12	Cookies, Authentication, and Sessions	
10/17	Introduction to JavaScript	

When	Topic	Notes
10/19	Introduction to JavaScript	
10/24	Client-side validation using JavaScript	
10/26	Client-side validation using JavaScript	
10/31	Recap	
11/02	Exam 2 (Quiz)	
11/07	Client-side validation using JavaScript	
11/09	Advanced Concepts of JavaScript	
11/14	Advanced Concepts of JavaScript	
11/16	Node.js	
11/21	AJAX	
11/23	<b>No Class - Thanksgiving Break</b>	
11/28	Recap	
11/30	Final Project Presentations	
12/05	Final Project Presentations	