

**San José State University**  
**Department of Computer Science**  
**Spring 2026**  
**CS 174-01 – Server-side Web Programming**

**Course and Contact**

**Information Instructor:** Ramin Moazeni, PhD  
**Class Hours:** MW: 4:30PM - 5:45PM  
**Office Hours:** TTh 11:30-12pm ONLINE Over Zoom (Or by appt)  
**Email:** [Ramin.Moazeni@sjsu.edu](mailto:Ramin.Moazeni@sjsu.edu)  
**Classroom:** MH 223

**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, with an introduction to core web technologies including HTML 5, CSS 3, JavaScript and the AJAX/Fetch API. Topics include server-side programming with PHP, Python (FLASK, Django), use of Node.JS, data exchange with XML/JSON, web services and RESTful APIs, and database access.

**Learning Outcomes**

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

- **CLO1** – Create structured, accessible HTML5 documents with forms, tables, multimedia, and responsive CSS3 design.
- **CLO2** – Use JavaScript for form validation, interactivity, DOM manipulation, and asynchronous data fetching.
- **CLO3** – Develop secure server-side programs in PHP/Python (Flask/Django) for forms, sessions, databases, and dynamic content.
- **CLO4** – Design and integrate RESTful APIs and web services using JSON/XML for data exchange.
- **CLO5** – Build and deploy secure full-stack applications with client, server, and database layers, applying best practices in testing, version control, teamwork, and communication.

**Required Texts**

There are no required books for this class.

**Important Dates:**

Class starts Monday, Jan 26

Midterm Exam: Wednesday, March 18 (4:30-5:45pm)

Academic Holiday:

- Spring Recess -- March 30- April 3 (**No Class**)

Class ends Monday, May 11

Final Exam: Monday, May 18 (3:15-4:30pm)

**Course Mechanics**

You are required to bring a laptop or desktop running Windows, macOS, or Linux to all classes and exams. The device must be capable of installing and running all course-related software.

## Course Requirements

### Assignments (40%)

There will be a number of assignments throughout the semester. The assignments are usually due at the end of the day on the due date.

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 (50%)

One In Person mid-term (25%) and an In Person final exam (25%). Exams will be administered over Canvas and Lockdown browser will be required. Both exams are closed book/notes.

Exams cannot be made up, except for reasons of illness, as certified by a doctor, or documentable extreme emergency. If a student misses an exam without a legitimate excuse, a grade of zero will be recorded.

### Quizzes (10%)

Quizzes will be administered through LockDown Browser and will cover the material discussed in class. In general, you should expect a quiz at the conclusion of each major topic. **Missed quizzes cannot be made up.**

## Grading Policy

Programming assignments	40%
Quizzes	10%
Midterm	25%
Final	25%
Total	100%

Your grade for the course is based on the exams, the homework, and quizzes. Grades are calculated by weighting the scores as defined below.

A:  $\geq 93$ , A-:  $\geq 90$ , B+:  $\geq 87$ , B:  $\geq 83$ , B-:  $\geq 80$ , C+:  $\geq 77$ , C:  $\geq 73$ , C-:  $\geq 70$ , D+:  $\geq 67$ , D:  $\geq 63$ , D-:  $\geq 60$ , F:  $< 60$

## Policy on Academic Honesty

Your commitment, as a student, to learning is evidenced by your enrollment at San Jose State University. The University Academic Integrity Policy S07-2 at <http://www.sjsu.edu/senate/docs/S07-2.pdf> requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The Student Conduct and Ethical Development website is available at <http://www.sjsu.edu/studentconduct/>.

If we find evidence of dishonesty on an assignment, project, or exam, you will receive a zero (0) for that assignment, project, or exam and an Academic Dishonesty Incident Report will be filed in the Academic Affairs Office; we take academic honesty extremely seriously.

## Accommodations

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 at [http://www.sjsu.edu/president/docs/directives/PD\\_1997-03.pdf](http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf) requires that students with disabilities requesting accommodations must register with the Accessible Education Center (AEC) at <http://www.sjsu.edu/aec> to establish a record of their disability.

## CS 174, Server-side Web Programming, Course Schedule

### Tentative course calendar

Week	Item
1	Course Introduction
2	HTML elements like lists, tables, links, and images
3	HTML Stylesheet - CSS3
4	XML Basics, JSON
5	Javascript Introduction
6	Document Object Model (DOM)
7	Javascript Advanced
8	Python Overview <b>Midterm Wednesday, March 18</b>
9	PHP, Forms, Sessions, Cookies
10	PHP, Forms, Sessions, Cookies
11	<b>Spring Recess</b>
12	AJAX/Fetch
13	NodeJS, ExpressJS
14	FLASK, Django RESTful APIs
15	Database Access
16	Final Review
17	<b>Final Exam Monday, May 18</b>