

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: TTh: 6:00PM - 7:15PM
Office Hours: TTh 11:30-12pm ONLINE Over Zoom (Or by appt)
Email: 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, Djang), 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 (6:00-7:15pm)

Academic Holiday:

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

Class ends Monday, May 11

Final Exam: Wednesday, May 13 (5:30-6:45pm)

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: ≥ 93 , A-: ≥ 90 , B+: ≥ 87 , B: ≥ 83 , B-: ≥ 80 , C+: ≥ 77 , C: ≥ 73 , C-: ≥ 70 , D+: ≥ 67 , D: ≥ 63 , D-: ≥ 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 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 Midterm Wednesday, March 18
9	PHP, Forms, Sessions, Cookies
10	PHP, Forms, Sessions, Cookies
11	AJAX/Fetch
12	NodeJS, ExpressJS
13	FLASK, Django RESTful APIs
14	Database Access
15	Fall Recess
16	Final Review
17	Final Exam Wednesday, May 13