

Programming in Java

CS 49J

Fall 2026 Section 01 In Person 3 Unit(s) 08/19/2026 to 12/07/2026 Modified 08/20/2026

Contact Information

Instructor(s): Dominic Abucejo

Office Location: Onsite office location (DH 212)

Email: dominic.abucejo@sjsu.edu

Office Hours:

- Days & Hours:
 - Tuesday/Thursday
 - 6:45am to 7:15am (at the office or via Zoom)
 - Tuesday
 - 11:45am to 12:30pm (Zoom meeting only)
 - Zoom link: <https://sjsu.zoom.us/j/5969483607>
 - Please inform the professor (via email) if you are interested in a Zoom meeting call.

Course Information

Course: CS 49J Section 01 (course # 42000)

Class Days/Time: Monday/Wednesday from 6:00pm to 7:30pm

Instruction Mode: In-Person only

Classroom: Science Building (SCI), Room 311

About the Course

Introduction to the Java programming language and libraries. Topics include fundamental data types and control structures, object-oriented programming, string processing, input/output, and error handling. Use of Java libraries for mathematics, graphics, collections, and for user interfaces.

Prerequisites:

CS 46B or equivalent in a language other than Java; Allowed Majors: Computer Science, Data Science, Math, Math ITEP, Stats, Applied/Computational Math, Software Engineering, Forensic Science: Digital Evidence, or Undeclared.

Letter Graded

** Note 1: Students not have completed these prerequisite courses cannot enroll in this course*

** Note 2: Proof of prerequisite course completion is required*

Course Description and Requisites

Introduction to the Java programming language and libraries. Topics include fundamental data types and control structures, object-oriented programming, string processing, input/output, and error handling. Use of Java libraries for mathematics, graphics, collections, and for user interfaces.

Prerequisite(s): CS 46B or equivalent in a language other than Java; Allowed Majors: Computer Science, Data Science, Math, Math ITEP, Stats, Applied/Computational Math, Software Engineering, Forensic Science: Digital Evidence, or Undeclared.

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* Classroom Protocols

Collaboration Policy

Collaboration is encouraged, but you must cite the classmates you work with and you cannot copy their work (unless it is a team/group assignment). This includes sharing large blocks of code on discord and/or other similar social communication platform, or via document sharing services such as Google Drive, and other similar sites.

Cheating

- Cheating is prohibited on all course submission items e.g. assignments, quizzes, exams, etc.
- Any cheating will result in zero points for the related submission (e.g. assignment, quiz, exam) and a second infraction of cheating will result in a failure (grade F) in the course.
- All incidents of cheating will be reported to the University per [University Policy F15-7](#).

Classroom Protocol

- You are expected to arrive at class on time
- Class attendance:
 - All students must be present in class on days when there are scheduled quizzes, exams, in-class assignments, and presentations in order to receive points for any of these class activities.
 - Make up work will not be granted to any student who missed these activities unless there is a formal and valid excuse provided by the student and sent to the professor before the start of the class activities.
- Have your laptop available for each class for group work, quiz, and exam.
- Bring extra pen and paper
- When sending an email:
 - Write who you are
 - What class/section and/or day/time you are part of
 - Don't just write a blanket sentence e.g. What will be on the quiz? (with no reference to what class you are in). Please be specific.
- All mobile phones should be set to silent mode
- For all unrelated conversations while the professor is lecturing are to be discussed outside of the classroom.
- Refrain from using any electronics except for ones that will help you take notes
- Do NOT share any course material publicly (on Canvas, GitHub, etc.) without permission, including but not limited to lecture notes, lecture videos, passwords, homework/exam solutions, and class meeting links.
- A student is expected to be trustworthy, helpful, friendly, courteous, and kind.

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)

Upon successful completion of this course, students will be able to:

1. Write Java applications which are appropriately documented using Javadoc.
2. Use Java to read and write text files.
3. Implement from specifications Java classes that embody data structures.
4. Use and work with pre-existing implementations in the Java collections framework.
5. Use iterators and enhanced for loops to traverse collections.
6. Write a graphics program that draws simple shapes.
7. Use Java exceptions for error handling.
8. Use ArrayList, Set, and similar data structures
9. Design classes for inheritance

10. Understand overloading and overriding principles
11. Use String class methods
12. Develop a Java GUI application

Course Materials

Required Texts/Readings

The majority of the coding assignments will come from questions related to the online zyBooks Java course. This is a mandatory book which will be referenced through out the time of this course.

Instructions for students

1. Sign in or create an account at
learn.zybooks.com
2. Enter zyBook code

SJSUCS49JAbucejoFall2026
3. Subscribe

A subscription is **\$94**. Students may begin subscribing on Aug 05, 2026 and the cutoff to subscribe is Nov 30, 2026. Subscriptions will last until Dec 29, 2026.

When you subscribe to the zyBooks Java course, you should see the following choices about which section you are subscribing to:

Class sections

- CS 49J-01 (FA2026) | M/W 6:00pm to 7:15pm. <-- this is your course
- CS 49J-02 (FA2026) | M/W 7:30pm to 8:45pm

Readings

Other readings may be assigned from articles and journals. The links for these materials will be provided on Canvas.

Course Requirements and Assignments

Library Liaison

Anamika Megwalu, email: anamika.megwalu@sjsu.edu, website: <https://libguides.sjsu.edu>

Assignments

Assignments will be referring to questions from the required course book, and will be referring to questions related to other team topics and other objectives e.g. team project. Assignment will appear weekly in the assignments section on Canvas.

- Students will have at least 3 days and up to one week to complete an assignment.
- Late assignment submissions will not be accepted for any reason
- A late submission will be awarded ZERO (0) points.
- No due date/time extensions will be given.
- No make up work for any missed assignments will be granted.

Exercises

These are exercises to help further develop your thinking about software engineering, and these exercises are separate from the book exercises.

- Exercises are typically to be done during class
- In-class responses to exercises are to be turned in before the end of the class lecture session (and students must be present in class to get points).
- No due date/time extensions will be given.
- No make-up date/times for missed exercises will be granted.

Course Project

There will be one course project which will be broken up into a couple of weeks where students, at the end of each week, will submit their task assignment. Each successive week relies on the previous week of work. So you will have to make sure that for each week, you complete a working portion of the project.

- Any late submission of any of the deliverable of the project assignment will be awarded ZERO (0) points.
- No due date/time extensions will be given.

Quizzes

Canvas quizzes will be given during class but can also be assigned to be completed outside of class (this will be described in the quiz description). Quizzes will be based on any previously discussed (lecture topic) and based on work from (assignments/team work tasks).

- All quizzes will be on Canvas; some quizzes may be issued as a paper quiz.
- All quizzes can only be taken in-class (for the in-class quizzes)
- All quizzes are closed book e.g. no cheat sheet.
- No make up quizzes will be granted
- References to online material or eText book is prohibited
- All quizzes will have lock down browser enabled

Exams (Midterms)

There will be two midterm exams throughout the semester.

Each exam is based on course material that was previously discussed in class and will be related to any or all assignments/in-class work and team work; up to the point of the exam day.

- Exams are accumulative e.g. material learned for exam 1 may appear on exam 2
- Both exams are in-class exams (must be present to get credit)
- All exams will be delivered on Canvas or will be delivered as a paper exam, or can be a hybrid of online and paper exam questions
- All Canvas exams will have lock down browser enabled
- No make-up / redo exams will be granted

Final Exam

There will be an accumulative final exam that will ask question related to any material dealt with throughout the entire course's semester.

- This is an in-class exam.
- The exam will be a closed-all-materials exam.
- The date and time of the final are fixed (please refer to the SJSU final exam schedule).
- The final will exam will be on Canvas where a portion of the exam will be done on paper.
- The final exam will have lock down browser enabled (for the online Canvas portion)
- No make-up / redo of the final exam will be granted

About in-class exams

In-class exams [require] your presence in the classroom. You cannot complete any of these exams outside of the classroom; these exams cannot be taken after the exam date.

REQUIRED: You must notify the professor before the exam date/time if you want an opportunity to be able to provide a valid excuse. Failure to inform the professor about missing the exam (prior to the exam date/time) will result in zero (0) points for the exam. Providing an excuse after the exam date/time will not be accepted and you will get zero (0) points for the exam.

An excuse is one which will require proof e.g. documentation

1. Medical appointments/injury/mental well-being (must be you and not someone else)
2. Family Emergency or Care/Home Emergency/Sick
3. Military active service
4. You are part of the University's sports team/Band/Orchestra/Club and you have to travel away from school
5. Car accident (you were part of it)

****Send out an email immediately once you know that you have trouble getting to the class**

A few examples of many of what will not be accepted as excuses:

- (1) Missing the exam because you scheduled a concert and you attended it, or you did something not school/medical/emergency related and was away from school on the exam day.
- (2) I woke up late....
- (3) I was stuck in traffic....

*You decide on how you want to lose points. It's your decision.....

✓ Grading Information

Grades will be posted to Canvas. Your final course grade will be determined by grading weights (category percentages). The following grading categories are described below:

- 15% Assignments & Exercises (in-class)
- 10% Quizzes (in-class)
- 10% Project
- 20% Exam 1 (in-class)
- 20% Exam 2 (in-class)
- 25% Final Exam (in-class)

Note: In this course, there are no extra credit point assignments or extra credit questions

For this course, each student will receive a final letter grade at the end of the semester. The final letter grade is determined by the grading table (below).

Grade Letter	Corresponding Grade Percentage
A	$\geq 93.00\%$
A-	90.00% to 92.99%
B+	87.00% to 89.99%
B	83.00% to 86.99%
B-	80.00% to 82.99%
C+	77.00% to 79.99%
C	73.00% to 76.99%
C-	70.00% to 72.99%

D+	67.00% to 69.99%
D	63.00% to 66.99%
D-	60.00% to 62.99%
F	< 60.00%

Note : The calculated final grade percentage is [never] rounded off (grades are earned exactly as computed and described) - Grades are earned and not given!!!

All students have the right, within a reasonable time, to know their academic scores, to review their grade-dependent work, and to be provided with explanations for the determination of their course grades. See [University Policy S20-2](#) for more details.

University Policies

Per [University Policy 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>) web page. Make sure to visit this page to review and be aware of these university policies and resources.

Course Schedule

Exam Schedule

Exam	During	Date
Exam #1	Week 8	Wednesday - October 7, 2026 @ SCI 311
Exam #2	Week 13	Wednesday - November 11, 2026 @ SCI 311
Final Exam	Week 17	Monday, December 9, 2026 (5:30pm -7:30pm) @ SCI 311

Course Schedule (Subject to change with fair notice, which will be posted in Canvas)

Week #	Month Overview	Start Date	Topic
Week 1	August	Aug 19	Course Introduction
Week 2		Aug 24	Introduction to Java / Setup Environment / Variables and Primitives/ Scanner Class
Week 3		Aug 31	Decision Making (Branches) and Loops
Week 4	September	Sept 7	Arrays, ArrayLists, and Loops Sept 7 (Labor Day Holiday)
Week 5		Sept 14	User-Defined Methods / Classes and Objects
Week 6		Sept 21	Inheritance / Memory Management
Week 7		Sept 28	File I/O and Exception Handling
Week 8	October	Oct 5	EXAM #1 (Oct 7) / Abstraction and Interfaces
Week 9		Oct 12	Inheritance, Abstraction and Interfaces / Recursion
Week 10		Oct 19	Generics / Testing (JUnittest)
Week 11		Oct 26	No classes - Spring Break/Caesar Chavez Day
Week 12	November	Nov 2	The Collections Framework
Week 13		Nov 9	Exam #2 (Nov 11) / Multi-threading Nov 11 (Veteran's Day Holiday)
Week 14		Nov 16	GUI Programming
Week 15		Nov 23	JavaFX Programming Nov 25-27 (NI Day & Thanksgiving Holiday)
Week 16		Nov 30	Last full week of class JavaFX Programming continued / Topics review

Week #	Month Overview	Start Date	Topic
Week 17	December	Dec 7	Topics Review December 7 - Last Day of Instruction Final Exam (Monday, Dec 9 @ 5:30pm to 7:30pm in SCI 311)

***The schedule/topics may be subject to minor changes but with fair notice given in advance.*