Course Info

Catalog Description

Design of classes and interfaces. Object-oriented design methodologies and notations. Design patterns. Generics and reflection. Exception handling. Concurrent programming. Graphical user interface programming. Software engineering concepts and tools.

Prerequisites

Math 42	Discrete Mathematics	Grade Cminus or better
CS46B	Introduction to Data Structure	Grade Cminus or better

The Department of Computer Science strictly enforces prerequisites.

If you are not already pre-enrolled, you must attend the first day of the class and let your instructor know and fill out the provided document. If the class is not full, the permission codes will be provided to the requesters based on the priorities. More information will be given in the first day of the class.

Please note that any student who does not show up during the first two class meetings, may be dropped by the instructor.

Required Text

This course does not need a required textbook. My lecture notes contain all required materials.

Further Readings

- Cay Horstmann, "Object-Oriented Design & Patterns," 3rd edition: A watermarked edition will be provided in the Canvas. The resources can be found at: http://horstmann.com/oodp3/
- Stephen Gilbert and Bill McCarty, "Object-Oriented Design in Java," Sams ISBN-13: 978-1571691347
- 3. The references at the end of each lecture note.

Course Learning Outcomes (CLO)

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

1. Object-Oriented Design

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Implement threads and thread-safe data structures

3. GUI Programming

Use JavaFX to create graphical user interface (GUI) for desktop applications

Examinations and Assignments

Every week, there would be a short quiz.

There would be two midterms,

Java is the standard programming language for this course. Having enough knowledge about it is essential for this course. Success in this course is based on the expectation that students will spend at least 6 10 hours per week for:

working on the assignments,

preparation for the exams (quizzes, midterms, and final),

working on the term project.

More details about student workload can be found in <u>University Policy S16-9</u> available at <u>http://www.sjsu.edu/senate/docs/S16-9.pdf</u>.

Course Format

This course will be taught in online format. The lectures will be recorded and provided before the lecture time and students Course Forma