Course Syllabus

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CS501 Introduction to Java Programming

Fall, 2024

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COURSE DESCRIPTION

This course offers an introduction to the Java programming language for those students who have little or no background in programming. It includes basic programming constructs as well as creating programs for simple input-output to graphical user interfaces, numerical calculations, and text manipulations typical for physical and social sciences.

LEARNING OBJECTIVES

After successful completion of this course, students will be able to…

- Creation and execute Java programs using either a text editor and command line prompts or the use of a Java Integrated Development Environment (IDE) such as Eclipse and NetBeans. This to include the use of pop-up windows for communication with users.
- Expand these programs to include selection statements (all the forms of if..., if .... else ..., etc.) and program controls (for, while, etc., loops and case).
- Use object-oriented programming principles and create Java classes and test classes, objects, methods, and exception handling in multiple files.
- Use arrays appropriately.
- Use text, Strings, and input from files.
- Use graphical user interfaces and components (such as text boxes, buttons, etc.).

FORMAT AND STRUCTURE

- **Assignments:** 60%
- **Mid-Exam:** 15%
- **End-Exam:** 15%
- **Quiz:** 10%

COURSE SCHEDULE

Weeks (approx.)	Topics
1-2	Introduction, Java installation and program structures
3-4	Rudimentary input and output, Computations, Logic operators
5-6	Looping, built-in classes part of Java Development Kit (JDK); Assignment 1, Qu 1
7-9	Java classes, parameters, methods, constructors, exception handling; Assignm 2, MidTerm Exam
10	Arrays, sorting, string processing, elementary parsing, streaming I/O;
11	Class hierarchies; Assignment 3, Quiz 2
12-13	Graphical user interfaces, screen layouts; Assignment 4
14+	Final Exam

Course Summary:

Date	Details	Due
Tue Oct 1, 2024	**Assignment 1** (https://sit.instructure.com/courses/73691/assignments/535362)	due by 11:59pm
Tue Oct 22, 2024	**Assignment 2** (https://sit.instructure.com/courses/73691/assignments/537327)	due by 11:59pm
Thu Nov 7, 2024	**Assignment 3**	due by 11:59pm

	(https://sit.instructure.com/courses/73691/assignments/539316)
Thu Dec 5, 2024	Assignment 4 (https://sit.instructure.com/courses/73691/assignments/541180) due by 11:59pm
	End Term (https://sit.instructure.com/courses/73691/assignments/554986)
	Exercises (ungraded) (https://sit.instructure.com/courses/73691/assignments/536500)
	Mid Term (https://sit.instructure.com/courses/73691/assignments/540817)
	Quiz 1 (https://sit.instructure.com/courses/73691/assignments/535985)
	Quiz 2 (https://sit.instructure.com/courses/73691/assignments/542568)