ISOM3320 Internet Applications Development (Fall 2020)

	Lecturer	TA	
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	(Email subject: [ISOM3320])		
Telephone	2358-8142	2358-5728	
Office hours	By appointment	By appointment	
Textbook	Introduction to Java Programming and Data Structures (11/e)		
Course web	https://canvas.ust.hk/		

Please visit Canvas regularly for the updates in the course.

Time and Venue

L1	Wednesday and Friday: 4:30pm to 5:50pm	TBA
LA1	Thursday: 9:00am to 10:50am	TBA

Overview

This course covers development of applications (programs) through Java programming language. Java is an extensively deployed programming language with market dominance. Major topics of this course include object-oriented development approaches, GUI building blocks, exception handling, and so on. Students will learn how to apply Java programming and develop applications so as to address practical needs.

Course Objectives

In this course, students will learn the fundamentals of computer programming including variables, flow control, methods and arrays. This course has a strong emphasis on object-oriented development approaches. By attending this course, students will learn how to develop applications with general programming techniques and object-oriented development approaches. Specifically,

- They will learn how to utilize general programming techniques.
- They will learn how to define classes and create objects.
- They will learn how to build up GUI with functionalities.

Topics such as multimedia and exceptions handling will be covered.

Intended Learning Outcomes

- Acquire general programming knowledge with Java.
- Describe the flows of given programs.
- Predict the output of given programs.
- Apply programming techniques to solve practical problems.
- Write programs with object-oriented development approaches.

Evaluations

Lab submissions 20%
Individual assignments 40%
Group project 40%

Note. The evaluation components and class schedule are subject to change under special circumstances. Possible changes include, but are not limited to, replacing evaluation components with alternatives, and changing the weighting of evaluation components.

Class Schedule (Tentative)

Week	Lecture (Wednesday, Friday)	Lab (Thursday)	
	General Programmi	ng	
1	Sep 9, 11: Introduction, Data and Variables	Sep 10: No Lab	
2	Sep 16, 18: Selections and Flow Controls	Sep 17: Java Basics	
3	Sep 23, 25: Methods	Sep 24: Flow Controls	
4	Sep 30: Arrays	Oct 1: Public Holiday	
	Oct 2: Public Holiday		
	Object-Oriented Progra	mming	
5	Oct 7, 9: Objects and Classes (1)	Oct 8: Methods and Arrays	
6	Oct 14, 16: Objects and Classes (2)	Oct 15: Objects and Classes (1)	
7	Oct 21, 23: Objects and Classes (3)	Oct 22: Objects and Classes (2)	
8	Oct 28, 30: Abstract Classes and Interfaces	Oct 29: Objects and Classes (3)	
	Developing Applications U	sing Java	
9	Nov 4, 6: GUI and Event Handling	Nov 5: GUI and Event Handling	
10	Nov 11, 13: GUI Controls and Multimedia	Nov 12: Graphics, Image and Sound	
11	Nov 18, 20: Exceptions Handling	Nov 19: Exceptions Handling	
12	Nov 25, 27: Multi-Threading	Nov 26: Project Consultation	
13	Project Design Demo		

Schedule is tentative and subject to change. Please check the course website regularly for the updated schedule.

Grade appeal

Any appeal to score/grade has to be filed through email to both Dr. Cheung and the TA. No appeal to a particular score/grade shall be allowed 72 hours after its score/grade release day.

Academic honesty

Written work that you hand in is assumed to be original unless your source material is documented appropriately. Using the ideas or words of another person, even a peer, or a web site, as if it were your own, is plagiarism. Cheating and plagiarism are serious academic offenses. Students should read the section on cheating and plagiarism in the HKUST catalog.

Furthermore, students should be aware that faculty members have a range of academic actions available to them in cases of cheating and plagiarism from arranging a conference, to failing a student on that particular work, to failing a student in a course, to taking disciplinary actions.

For more information, please refer to: http://ugadmin.ust.hk/integrity/student-1.html