

## ISOM3320 Internet Applications Development (Spring 2021)

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

Please visit Canvas regularly for the updates in the course.

### Time and Venue

L1	Wednesday and Friday: 4:30pm to 5:50pm	TBA
LA1	Tuesday: 6:00pm to 7:50pm	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 and Friday)	Lab (Tuesday)
General Programming		
1	Feb 3, 5: Introduction and Fundamentals	Feb 2: No Lab
2	Feb 10: Selections and Loops  Feb 12: Public Holiday	Feb 9: Java Basics
3	Feb 17, 19: Methods	Feb 16: Flow Controls
4	Feb 24, 26: Arrays	Feb 23: Methods
Object-Oriented Programming		
5	Mar 3, 5: Objects and Classes (1)	Mar 2: Arrays
6	Mar 10, 12: Objects and Classes (2)	Mar 9: Objects and Classes (1)
7	Mar 17, 19: Abstract Classes and Interfaces	Mar 16: Objects and Classes (2)
8	Mar 24, 26: Exceptions Handling	Mar 23: Objects and Classes (3)
Developing Applications Using Java		
9	Mar 31, April 2: Mid Term Break Apr 7, 9: GUI	March 30: Exceptions Handling  Apr 6: Mid Term Break
10	Apr 14, 16: Event Handling	Apr 13: GUI and Event Handling
11	Apr 21, 23: GUI Controls	Apr 20: Graphics, Image and Sound
12	Apr 28, 30: Multi-Threading	Apr 27: 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>