

## ISOM3320 Internet Applications Development (Spring 2022)

	Lecturer	TA
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	(Email subject: <b>[ISOM3320]</b> ...)	
Telephone	2358-8142	TBA
Office hours	By appointment	By appointment
Textbook	Introduction to Java Programming and Data Structures (12/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	LSK1011
LA1	Tuesday: 5:00pm to 6:50pm	LSKG021

### 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

Class 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 4: Introduction and Fundamentals Feb 9, 11: Selections and Loops	Feb 8: Java Basics
2	Feb 16, 18: Methods	Feb 15: Flow Controls
3	Feb 23, 25: Arrays	Feb 22: Methods
Object-Oriented Programming		
4	Mar 2, 4: Objects and Classes	Mar 1: Arrays
5	Mar 9, 11: OOP Concepts	Mar 8: Objects and Classes (1)
6	Mar 16, 18: Abstract Classes and Interfaces	Mar 15: Objects and Classes (2)
7	Mar 23, 25: Exceptions Handling	Mar 22: Objects and Classes (3)
Developing Applications Using Java		
8	Mar 30, Apr 1: GUI	Mar 29: Exceptions Handling
9	Apr 6, 8: Event Handling	Apr 5: <b>Holiday</b>
10	Apr 13, 15: <b>Midterm Break</b> Apr 20, 22: GUI Controls	Apr 12: GUI and Event Handling Apr 19: Graphics, Image and Sound
11	Apr 27, 29: Multi-Threading	Apr 26: <b>Project Consultation</b>
12	May 4, 6: Advanced Topics	May 3: <b>Project Consultation</b>
13	<b>Project Design Demo</b>	

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>