

ISOM3230 Business Applications Programming L2 (Spring 2021)

	Lecturer	TA
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Office hours	By appointment	By appointment
Course web	https://canvas.ust.hk/	

Please visit Canvas regularly for the updates in the course.

Time and Venue

L2	Monday and Wednesday: 9:00am to 10:20am	TBA
LA1	Tuesday: 9:00am to 9:50am	TBA
LA2	Tuesday: 10:30am to 11:20am	TBA
LA3	Tuesday: 12:00noon to 12:50pm	TBA

Overview

This course is intended to be the first programming class for business students such that students will acquire general programming knowledge including concepts, syntax, structure and techniques. VBA (Visual Basic for Applications) is chosen for the teaching purpose. Apart from acquiring general programming knowledge, students will be given exposure to the design and development of business applications throughout the course. Students will learn how to solve practical problems by applying VBA programming.

Course Objectives

In this course, students will learn the fundamentals of programming including variables, flow control, methods and arrays. By attending this course, students will learn how to develop applications in the environment of Microsoft Excel. Specifically,

- They will learn how to utilize general programming techniques.
- They will learn how to manipulate the objects in Microsoft Excel.
- They will learn how to process varying volume of data stored in Microsoft Excel.
- They will learn how to build up GUI (graphical user interface) with functionalities.

Intended Learning outcomes

- Acquire general programming knowledge with VBA (Visual Basic for Applications)
- Describe the flows of programs
- Predict the output of programs
- Identify and fix logical and runtime errors of programs
- Apply programming techniques to solve practical problems

Evaluations

In-class Exercise	30%
Assignments	70%

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 (Monday and Wednesday)	Lab (Tuesday)
1	Feb 1, 3: Introduction	Feb 2: Intro to Excel (Win and Mac)
2	Feb 8, 10: Getting started with VBA	Feb 9: Marco Recording
3	Feb 15: Public Holiday Feb 17: VBA Basics	Feb 16: Basic VBA program
4	Feb 22, 24: Excel Objects - Workbooks and Worksheets	Feb 23: Variables, Data, Buttons, and IO
5	Mar 1, 3: Ranges	Mar 2: Workbooks and Worksheets
6	Mar 8, 10: If-then-else and select-case	Mar 9: Ranges
7	Mar 15, 17: Looping	Mar 16: If-then-else and select-case
8	Mar 22, 24: Methods	Mar 23: Looping
9	Mar 29: Arrays Mar 31, April 5: Mid Term Break Apr 7: Arrays	March 30: Methods Apr 6: Mid Term Break
10	Apr 12, 14: Userform	Apr 13: Arrays
11	Apr 19, 21: Business Applications 1	Apr 20: Userform
12	Apr 26, 28: Business Applications 2	Apr 27: Business Applications
13	May 3, 5: Formula Implementation	May 4: Formula Implementation

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

Reference book

Michael Alexander and Dick Kusleika (2016), Excel 2016 power programming with VBA, John Wiley & Sons. (Access link: <http://onlinelibrary.wiley.com/book/10.1002/9781119415503>)

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>