COMP1022Q Introduction to Computing with Excel VBA

Course Details Summer 2015

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COMP1022Q Introduction to Computing with Excel VBA

- Welcome to COMP1022Q!
- This PowerPoint goes through all the basic information about the course
- This course is all about the Excel program
 how to use it, how to program it
- After you learn programming with Excel, you can easily program lots of other things
- Let's start by listing the goals of the course

Course Outcomes

- On successful completion of this course, students are expected to be able to:
 - 1. Manipulate and visualize data using Microsoft Excel
 - 2. Program using the VBA language within Microsoft Excel to build effective solutions to problems

Start



Learn how to use Excel (without any VBA)

About 4 classes



Learn about using Excel with VBA $\begin{vmatrix} About \\ class \end{vmatrix}$



Finished!

A Flowchart for the Course

COMP 1022Q - Introduction to Computing with Excel VBA

Career Undergraduate

Units 3.00

Grading Basis Graded A+ to F

Course Components Laboratory Required

Lecture Required

Exclusion COMP 1002, COMP 1003, COMP

1004/104H (prior to 2009-10), COMP

1021, COMP 1022P, ISOM 3230

Description

Course Detail

This course is designed to equip students with the fundamental concepts of programming using the VBA programming language, within the context of the Microsoft Excel program. Students will first learn how to use Excel to analyze and present data, and will then learn how to use VBA code to build powerful programs.

• This is the official information about the course

Three Introductory CS Courses

- There are 3 introductory courses run by the CSE department that anyone can join
- Each of them teaches computer programming and related techniques, but there are some differences:
- COMP1021 Introduction to Computer Science
 - Teaches the Python programming language, which is a really good language for learning programming
 - It looks at some areas of computer science (CS) that the other two courses don't look at, to get a better appreciation of CS

Three Introductory CS Courses

- COMP1022P Introduction to Computing with Java
 - A lot of computer languages think about things as *objects*
 - This course focusses on teaching the concept of objects and how they interact using the Java programming language
- COMP1022Q Introduction to Computing with Excel VBA
 - This course is totally focused on the Microsoft Excel program, which is part of the Microsoft Office group
 - First, students learn how to use Excel (without programming), then they learn how to program it

Course Timetable

- Lecture
 - **L1**: Tue and Thu 10:00-11:50am
 - Venue: rm4619
- Labs
 - LA1: Tue and Thu 2:00-3:50pm
 - **LA2**: Tue and Thu 4:00-5:50pm
 - Venue: CS lab 3 (rm4213 near lift 19 the lab area)
 http://pathadvisor.ust.hk/?&floor=4&scale=3&offs
 etX=1113&offsetY=982

Course Instructor

Gibson LAM

– Email: gibson@cse.ust.hk

- Office: rm3512

• The best way to contact me is via email



• I won't post information about the course on Facebook or any other social network

Lab Teachers

- Wallace MAK
 - Email: wallacem@cse.ust.hk
 - Labs: first half of the course



- Email: kycs@cse.ust.hk
- Labs: second half of the course



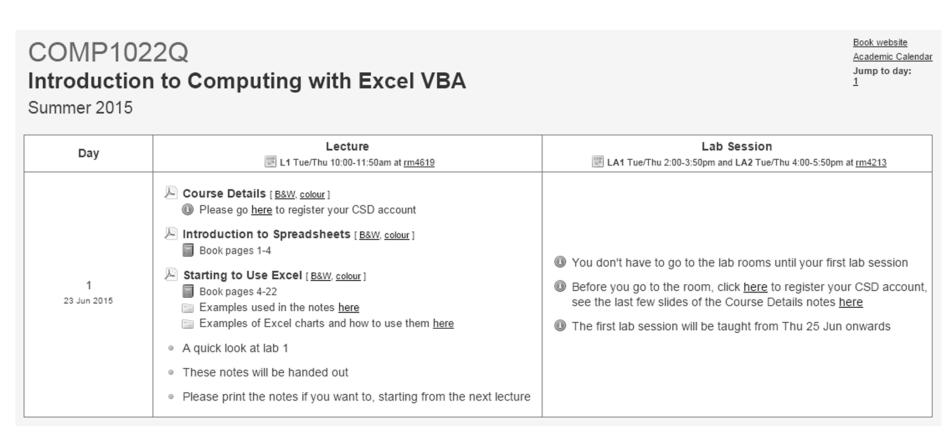


• There will also be other people helping you in the lab

Course Web Site

- All course information is presented via the web at https://course.cse.ust.hk/comp1022q/
- At the start of the semester, there won't be any need to log in to the web site
- Later you will need to use your CSD account (not your ITSC account) to log on to the web site

Starting the Course



• The first lab will be taught on the second day of the course

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Course Notes

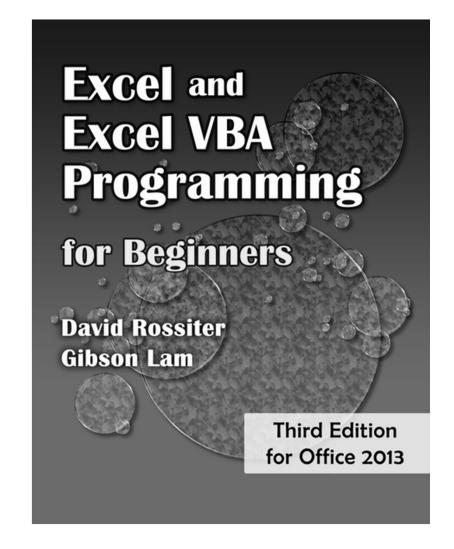
- The notes will be released on the web site before the lecture, so you have time to download and print them, and bring them to class
- Some material will be handed out and discussed during the lectures
- The labs will also be released before they are taught, so you can start them before you go

Course Book

- The book for this course is shown on the next slide
- This book is written specially for this course
- You can get the book from the HKUST bookstore
- The in-class quiz and final exam will be open book/open notes, so you can take the book into the class/exam room

Excel and Excel VBA Programming for Beginners – 3rd Edition

- Written by David Rossiter and Gibson Lam
- Published –Sep 2014
- About 320 pages
- Student price for 3rd edition is roughly: \$181 (if you show your student card)



• Lectures

Worth:

- Lectures are typically used to give a solid introduction to a topic, with lots of demonstrations
- Then the labs are for you to explore the subject in depth

Labs

- We will have around 9 taught lab sessions
- It is very important that you attend the lab sessions, otherwise it will be impossible to do the assignments
- Two assignments

 $2 \times 15\% = 30\%$

• In-class quiz (optional)

30%

- An open book/notes in-class quiz on 16 Jul
- Final exam

40%

This will be a 2.5 hour, open book/notes exam
 on 11 Aug

Optional In-class Quiz

- The in-class quiz will be optionally counted towards the final grade
- If the quiz is not counted towards the grade, the weighing of the assignments will become 40% and the final exam will become 60%
- We will automatically use the arrangement which gives you a higher course total at the end of the semester
- Even though the quiz may not contribute to your final grade it is still a good practice of what you have learned



Conduct During Lessons

- When you come to the lectures or labs please don't disturb anyone, especially the course instructors!
- So make sure your phone is off before you come in the room, and have any discussions with your friends outside the room

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Taking Attendance in Lectures

- We won't take attendance during the lectures
- If you don't go to the lectures, you will quickly become 'lost' and won't understand the course content and labs but that's your choice!



Assignment Points

- Occasionally I will ask some questions during the lecture
- If you answer a question correctly the first time, you will get 2 assignment points (= two marks in your assignment)
- I may give out assignment points for other activities if I can come up with some
- The assignment points can be used to fill up your assignment score until you get full marks

Taking Attendance in Labs

- We usually won't take attendance during the labs **BUT** if people don't go to their registered lab and go
 to another one instead, that causes big problems
- Maybe some students in the 4pm lab want to finish school early, so they go to the 2pm lab...
- That lab then has too many students and not enough computers, so some of the students who are really registered in that lab can't do anything
- If we encounter this situation, we will do random checks of all students in the over-crowded lab session, and give penalties to students who shouldn't be there

Cheating Policy



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- If you get caught cheating, both you and the other person get zero for that work, and your end-of-semester grade is lowered one sub-grade i.e. a C grade becomes C-
- It doesn't matter if you only copied a little, the penalty is the same for both the source and the copier
- Copying anything from a previous semester is also cheating, make sure you only use material from this semester

Some Interesting Things We Have Heard



- I lent my USB drive to others and forgot my work was on it!
- I lent my work to others only for their reference!
- I submitted someone else's work by mistake!
- My friend prepared a template which I used to do the work, and I forgot to remove his name!
- And so on... sorry, but all these kinds of things get zero

Things That Are OK to Do

- Discussing the work with others is fine; that's different from direct copying
- Another thing you might find helpful is to search the Internet
- There's lots of material about Excel and VBA on the web, and you are welcome to learn from it

Your Computer Accounts

- You have two computer accounts:
- Your ITSC account
 - This is given to you when you join UST
 - This is your main email account at UST

- Your CSD account
 - This is given to you when you first join a COMP course

- All the COMP1022Q labs are taught in the Computer Science Department (CSD) lab rooms (we will use room 4213, called CS lab 3)
- Before you can work in those lab rooms, you need to enable your CSD account

How to Enable Your CSD Account

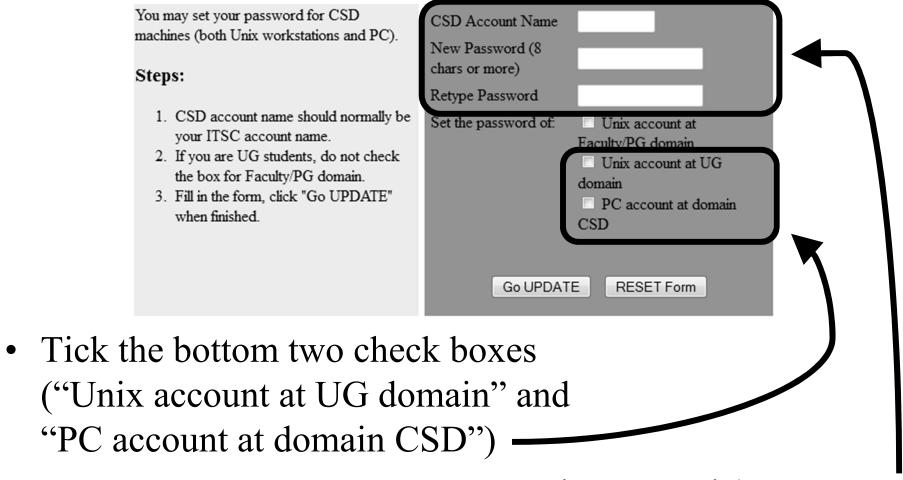
- Don't wait for the lab time to do this
- Go to a computer in one of the barns at UST
- Run a browser, go to:

https://password.cse.ust.hk:8443/pass.html

 Log on using your ITSC details



CSD Password Setting Service



- Enter your ITSC account name and password (your CSD account name is the same as your ITSC account name)
- Finally, click 'Go UPDATE'

You will see something like this:



- You need to wait 5-10 minutes before your
 CSD account is activated
- Now you can access any CSD computers i.e. the computers we will use in CS lab 3
- Enable your account before the lab begins!