COMP1022Q Introduction to Computing with Excel VBA

Course Details Spring 2013

David Rossiter

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

- 1. To be competent in using Microsoft Excel for handling and visualizing data
- 2. To be able to program the VBA language within Microsoft Excel to build efficient solutions to problems

Start



Learn how to use Excel (without any VBA)

About 4 weeks



Learn about using Excel with VBA

About 9 weeks



Finished!

A Flowchart for the Course

COMP 1022Q - Introduction to Computing with Excel VBA

Course Detail

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

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
 - Is more 'broad' than the other two courses, because 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

	COMP1022Q Lecture Timetable, Spring 2013				
	Monday	Tuesday	Wednes	Thursday	Friday
0900-0930					
0930-1000	COMP1022Q		COMP1022Q		
1000-1030	L2 (Rm 3007)		L2 (Rm 3007)		
1030-1100	COMP1022Q		COMP1022Q		
1100-1130	L3 (LTF)		L3 (LTF)		
1130-1200					
1200-1230					
1230-1300					
1300-1330					
1330-1400		COMP1022Q		COMP1022Q	
1400-1430		L1 (Rm 2407)		L1 (Rm 2407)	
1430-1500					
1500-1530					
1530-1600					
1600-1630					
1630-1700					

Course Instructors





Name	Preferred Email	Lecture Sections
David Rossiter	rossiter@cse.ust.hk	L2
Stavros Papadopoulos	stavrosp@cse.ust.hk	L1 & L3

Contact Channels

- The best way to contact us is via email
- Any useful replies that we send out are also posted on the newsgroup for everyone to read and learn from
- The newsgroup is hkust.cs.class.1022q
- The newsgroup should be checked regularly, particularly when a deadline is near
- If you add a newsgroup message please use your proper email ID, don't use a nonsense one
- We will <u>never</u> post information about the course on Facebook or any other social network

	COMP1022Q Lab Timetable, Spring 2013				
	Monday	Tuesday	Wednes	Thursday	Friday
0900-0930		COMP1022Q	COMP1022Q		
0930-1000		LA6	LA4		
1000-1030		(Rm 4213)	(Rm 4213)		
1030-1100		Wallace	Cecia		
1100-1130		COMP1022Q	COMP1022Q		
1130-1200		LA5	LA2		
1200-1230		(Rm 4213)	(Rm 4213)		
1230-1300		Wallace	Jan		
1300-1330					
1330-1400					
1400-1430					
1430-1500		COMP1022Q	COMP1022Q		
1500-1530		LA3	LA1		
1530-1600		(Rm 4213)	(Rm 4213)		
1600-1630		Tom	Cecia		
1630-1700					

Teaching Assistants (TA)

Name	Preferred Email	Lab Sections	
CHAN Ki Cecia	kccecia@cse.ust.hk	LA1 & LA4	
VOSECKY Jan	jvosecky@cse.ust.hk	LA2	
KO Tom	tomko@cse.ust.hk	LA3	
MAK Wai Ho Wallace	wallacem@cse.ust.hk	LA5 & LA6	

There are also other people helping you with the course, such as markers and lab helpers

Course Web Site

- All course information is presented via the web at http://course.cse.ust.hk/comp1022q/
- At the start of the semester, there may be no password, but later you will need to log on
- To log on, use your email (i.e. cs_abc), with the last four digits of your student id as the password (i.e. 0113)

Starting the Course

COMP1022Q Introduction to Computing with Excel VBA

Spring 2013

Newsgroup

Week Number	First Lecture Lecture time slots <u>here</u>	Second Lecture Lecture time slots here	Lab Session Lab time slots <u>here</u>		
1 27 Jan			No course activity on first day of semester		
1 3 Feb	Course Details_B&W, colour Please go here to register your CSD account Introduction to Spreadsheets_B&W, colour Book pages 1-8, 11-16 Demonstration of future assignment	Starting to Use Excel_ B&W. colour Book pages 9-11 Examples used in the notes here Examples of Excel charts and how to use them here A quick look at lab 1	You don't have to go to the lab rooms until your first lab session The first lab will be taught Tuesday 19 September-Wednesday 20 February Make sure you register your CSD account first! See the last few slides of the Course Details notes here		
2 10 Feb	Monday-Wednesday are HK holidays, no lectures	No lecture 2 this week	No labs this week		

- Here is the official <u>UST calendar</u>
 - The first lab will start on 19-20 February
 - There is no course activity in the week of the Chinese New Year!

Course Notes

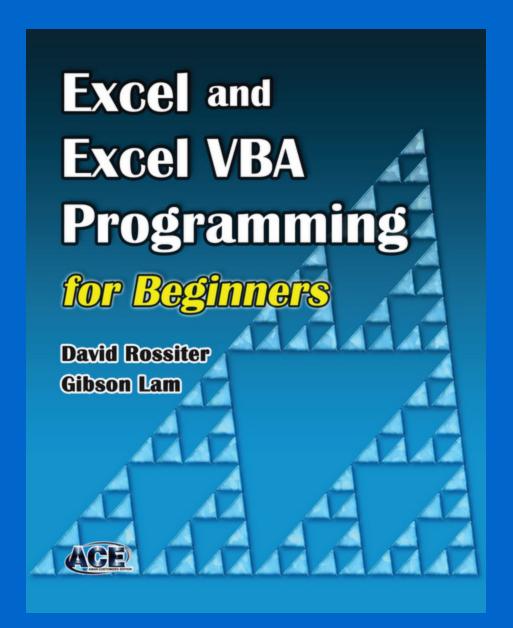
- For the first few lectures, we will hand out the notes on paper
- After that, we will release the notes on the web site before the lecture, so you have time to download and print them, and bring them to class
- The labs will also be released before they are taught, so you can look at them before you 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 book shop
- The exam(s) will be open book/open notes, so that you can take the book into the exam room

Excel and Excel VBA Programming for Beginners

- Written by David Rossiter and Gibson Lam
- Recently published –
 Sep 2012
- About 250 pages
- Student price last semester: \$125.5 (if you show your student card)



• Lectures Worth:

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

Labs

- We will have 9-10 taught lab sessions
- It is very important that you attend the lab sessions,
 otherwise it will be impossible to do the assignments

Assignments

- There will be three assignments, see next slide 40%

Midterm test

- This test will be an open book exam starting
 7:30pm, Thursday 21 Mar 2013, in LTA, LTD & LTE
- More details will be released later

Final exam

- This will be a 2.5 hour, open book, open note exam 38%

Assignments

Worth:

• The first assignment will involve using Excel formulas only (no VBA)

• The second assignment will involve using Excel with some VBA programming 12%

• The third assignment will involve more advanced use of Excel with VBA 18%





- 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

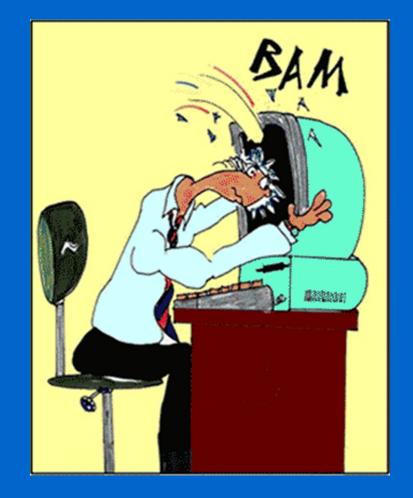
• 'Cell Phone Avenger' is our hero!



From http://autodogmatic.com/art/cpa3.jpg

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 labs/assignments but that's your choice!



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
- For example, there are 9am labs on Tues and Weds
- Maybe some students registered for that lab don't want to get up so early, so they go to a different 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 ⁽³⁾
- 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

- 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 people
- Copying anything from a previous semester is also cheating (but the assignments are not the same)
- If you cheat twice you get a F grade...

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... 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
 Your CSD account
 - This is given to you when you join UST
 - This is your main email account at UST

- - 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

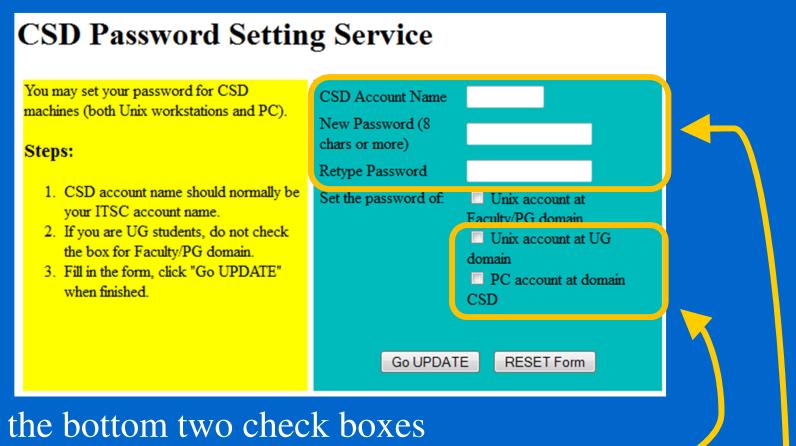
How to Enable Your CSD Account

- 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





- Tick the bottom two check boxes ("Unix account at UG domain" and "PC account at domain CSD")
- 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!