

COMP1021 Fall 2022


Final Exam Details

The Final Exam Email

- The exam is on **Friday 9 December 2022**
- In the evening before the exam we will send you an email
- The email will have:
 - A PDF file for the first part of the exam
 - A PDF file for the second part of the exam
 - A link to the place (on canvas) for submitting your answers
 - A link to the exam monitoring program
 - A link to the Zoom room
 - Probably, it will also have links to **one or more multimedia files** related to the exam which you can look at and download to your computer before the exam begins

Final Exam Timing

- **Friday 9 Dec 2022**

- **12:10pm - 12:23pm** Make sure you are ready
 - **12:23pm** *Start the exam monitoring program, enter details*
 - **12:25pm** *Show your face to camera for $\geq 5s$*
 - **12:27pm** *Slowly move your camera to show your nearby area for $\geq 10s$*
 - **12:28pm** *Password for first part announced*
 - **12:30pm - 1:10pm** **Final exam - first part**
(40 minutes long)
 - **1:10pm - 1:23pm** *Toilet break – stay logged in to Zoom!*
 - **1:23pm** *Make sure the exam monitoring program is still running!*
 - **1:23pm** *Password for second part announced*
 - **1:25pm - 2:05pm** **Final exam - second part**
(40 minutes long)
 - **2:07pm** *Stop the exam monitoring program; delete it*
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- You don't need to do these if you are in one of our quiet rooms

What Can You Do On Your Computer?

- You can only use these during the final exam:
- IDLE Python version 3.10.4
 - You can do whatever you like with IDLE during the exam
 - Other programming IDEs such as VS are **not allowed**
- A browser such as Chrome
 - You can **only access the two course web sites:**
<https://canvas.ust.hk/courses/45392> and
<https://course.cse.ust.hk/comp1021> and
any PDF notes you drag into your browser
 - You cannot visit any other web site
- Zoom
 - You must use this if you are not in one of our quiet rooms
 - If you are in one of our quiet rooms, you don't need it

Checking What You Are Doing

- Because there are limited things you are allowed to do on your computer, we need to check you are being good:
 - **12:23pm** *Start the exam monitoring program, enter details*
 - . . .
- The link to the program will be given to you in the email sent to you before the exam
- The program will not change anything on your computer
- When you run the program, you may need to enter some information
- If you want to, you can start the program earlier

Use Your Camera

- Please use your camera to do this:
 - **12:25pm** *Show your face to camera for $\geq 5s$*
 - **12:27pm** *Slowly move your camera to show your nearby area for $\geq 10s$*
- When you show your face:
 - Show your face clearly
 - Don't move around
 - Keep your face still for $\geq 5s$
- When you show your nearby area:
 - Move your camera so we can see all of your local area
 - Please do $\geq 5s$ for the left side, $\geq 5s$ for the right side
- You don't need to do this if you are in one of our quiet rooms
- If you are in one of our quiet rooms, put your HKUST and HKID card on your table
- You don't need to do this if you are in one of our quiet rooms

Why Two Parts?

- The only reason for dividing the final exam into two parts is to give you a break in the middle

Coverage of the Final Exam

- **For labs** - all the labs (lab 00 to lab 06 inclusive)
- **For lectures** - up to and including the last taught lecture before the final exam

Where Can You Take The Exam?



- You need to find your own place to take the exam
- This will probably be the place where you sleep
- Please take the exam using a PC/Mac and good internet signal, and follow the Zoom video requirements - discussed later

A Quiet Room to Take the Exam

- We have booked some rooms so there is a quiet place for you to take the final exam
- To get a seat, you must request a place by following the link on the web site and submitting your details
- The forms will be closed at the end of Sunday 4 December or when there are no more seats available, whichever is first

Request to take the COMP1021 Final Exam in a Quiet Room

The COMP1021 final exam starts at 12:30pm on Friday 9 December 2022. If you are successful with your request then you need to be in the room allocated to you 20 minutes before that.

 drossiter@gmail.com (not shared) [Switch accounts](#) 

**Required*

Please enter your name, exactly as shown on your HKUST card, with surname first *

Your answer

Please enter your HKUST email (no need to include @connect.ust.hk) *

Your answer

Please enter your HKUST 8 digit student ID number *

Your answer

Submit

Clear form

Taking the Exam in one of our Rooms

- These physical rooms will be handled by Dr Alex Lam, lamngok@cse.ust.hk
- You will get an email a few days before the final exam if your request is successful
- If you take the exam in a room monitored by us:
 - Bring your HKUST card and Hong Kong ID (HKID) card, put them on your table so they can be checked
 - There will be someone there to supervise
 - We will release a seating plan; sit in the right place
 - Probably, **there are no power sockets** in the room
 - You don't need to turn on or use Zoom
 - You will be able to see/hear the invigilator on the room projector

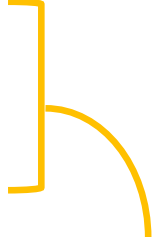
Extra Guidance

- Prepare backups:
 - It's wise to have a second device
e.g. a tablet with bluetooth keyboard
 - It's wise to have a second Internet connection
e.g. use the wi-fi signal/ your phone's internet /
someone else's phone internet
- Don't use any special language input
e.g. don't use Chinese/Korean language input

Final Exam Details

- The exam is an open book, open notes exam
- There will be roughly 8 questions for the first part/
roughly 7 questions for the second part
- Some questions may have more marks than others

Plug Everything In!

1. Make sure that your **laptop battery is fully charged**, and is **always plugged in**
2. Make sure that **your phone/tablet battery is fully charged**, and is **always plugged in**
3. You must have the camera turned on, showing the correct things via Zoom (see later) 
 - You don't need to do this if you are in one of our quiet rooms

Types of Question

- The style will be similar to previous final exams – several have been released
- In the exam there may be 'make a program from scratch' kind of questions (but there can't be many because there isn't much time)
- In other words, you may have to make a short program from nothing to work out the answer
- There may be some multiple choice questions

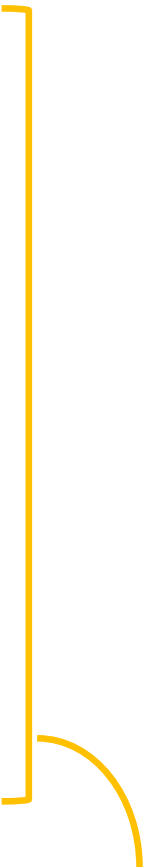
We Will Send You the Exam

- Before the exam we will send the PDF file(s) containing your exam to your ITSC email account
 - The exam will be sent to you from **namkiu@ust.hk**
 - Make sure your email quota is not full!
 - Check all your email folders to find the exam!
- Make sure you use only the exam sent to you
- We will tell you the password just before the exam begins, then you can open the PDF file
- Read the exam questions shown in your PDF file and enter your answers into the **canvas system**
- The exact link will be given to you in the email

During the Exam

- With 1,500+ students taking the exam it is impossible for us to give good answers to any queries during the exam
- Also, you may disturb others if you ask something
- Prepare properly before the exam so that you don't have any issues once the exam begins
- If there is an issue with a question we will handle it after the exam; we will adjust marks if appropriate
- We will even exclude a question, if it is appropriate

Referring to Things on Paper

- You can refer to things written on paper (such as notes, books)
 - If you are not in one of our quiet rooms, those items must be clearly visible in your Zoom video stream
 - You can write things on paper
 - If you are not in one of our quiet rooms, your hands and the paper must be clearly visible in your Zoom video stream
 - Just to be clear – you cannot touch or adjust your camera device during the exam
 - You don't need to use Zoom if you are in one of our quiet rooms
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Copying Code From the Exam

- Sometimes you will be able to copy and paste code from the exam PDF file, sometimes you won't be able to
- However, if you can copy code from a PDF file and paste it **the indentation is removed** – you need to add it back in your IDLE editor so the code works properly


Copying Code From the Exam

- If you are using a Mac:
 - Sometimes you can only copy a few lines (perhaps 10 lines) of code from the PDF file at once
 - If you cannot copy all of the lines of Python code at once then you can simply copy the first few lines, then paste, then copy the next few lines, then paste, and so on

Copying Code From the Exam

- The basic idea:
 1. In the exam PDF file, select the Python code
 - Make sure only the code is included, not other things
 - Make sure all of the code is included, don't miss any of it
 2. Right click > Copy
 3. Go to your IDLE, do File > New File
 4. In the new file window, do Edit > Paste
 5. Fix the indentation at the start of the code (if needed)
 6. Run the program (Run > Run Module) / edit the program, and so on - depending on what the question asks

Getting Things Ready for Zoom

- Use the name shown on your HKUST card
 - Do not use the Virtual Background feature
 - Turn off your microphone
 - Make sure you can hear the chat room sound
 - the invigilator will say things such as "the exam has started", "there are X minutes left", and so on
- You don't need to use Zoom if you are in one of our quiet rooms
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Use Zoom Video

- While you take the exam you will be observed via Zoom
- That means you need to use an external device with a camera, e.g. your mobile phone or a tablet, to show yourself while you are taking the quiz
- You must remain visible in Zoom during the exam e.g. you cannot leave
- Don't touch the device you are using for Zoom e.g. your phone/tablet during the exam
- These videos will be recorded and checked carefully
- You don't need to use Zoom if you are in one of our quiet rooms

What Your Camera Must Show



- You don't need to use Zoom if you are in one of our quiet rooms

The camera must show:

- your face (at least partially)
- the screen of the device where you are taking the Canvas quiz
- your hands
- your desk area

- Use just one camera in your Zoom room, not two

You need to install Zoom on the device which you will use to show your Zoom camera image

Another Example

- You don't need to use Zoom if you are in one of our quiet rooms

The camera must show:

- your face (at least partially)
- the screen of the device where you are taking the Canvas quiz
- your hands
- your desk area



You need to install Zoom on the device which you will use to show your Zoom camera image

- Use just one camera in your Zoom room, not two

Using the Browser

- If you drag/open PDF files e.g. notes into your browser, such as Chrome, it can be displayed in a tab
- ITSC says there is a problem if you use the Safari browser with the Canvas web site, so don't use that browser

Use Python instead of a Calculator

- You cannot use a physical calculator
- You cannot use a calculator program on your computer
- **Use Python** for any calculations
 - for example, use the Python shell

No Extra Hardware

- You cannot use an extra monitor during the exam
- You cannot use any extra device during the exam
- If you make notes on an iPad or equivalent device, before the exam you can convert them into PDF files and drag them into your browser for reference

Be Good

- Obviously, these are not allowed during the exam:
 - Direct communication with others
 - E.g. whatsapp, wechat, discord, etc
 - Indirect communication with others
 - E.g. communication via a web site comments page
- Invigilators will closely monitor the exam
- For anything inappropriate, action will be taken later
- Remember there are very strong penalties

After the Final Exam

- We will mark your final exam and release the marks a couple of days after the final exam
- We will also send you another PDF file which contains your final exam questions together with the correct answers to your questions

Preparing for the Exam

- The exam is not really a test of memorisation, it is more of a test of understanding how to program
- One thing you can do is:
 - Go through the notes and make sure you understand them
 - Go through the labs and make sure you understand them (we won't release solutions)
 - Go through the interactive examples and make sure you understand them
 - Download the examples and run them, try amending them and check you understand them

Useful Support

- More interactive practice pages – will be released soon
- Previous final exams:
 - Lots of previous final exams have been released as interactive web pages so you can easily test yourself
 - We have also released some PDF final exams
 - You can see video discussion of every question
- The previous final exam search system has been released

What the Final is Worth

- Remember that we will assess you at the end of semester using two different methods
- Here are the two assessments we will use for every student
 - Midterm 24%, lab projects 36%, final exam 40%
 - Midterm 0%, lab projects 42%, final exam 58%
- We will automatically use the best assessment for you at the end of semester
- If you don't do the final, you cannot pass the course