

Learning outcomes

At the end of this lecture, students should be able to:

- understand where to obtain information about COMPSCI 101
- understand which parts of the COMPSCI 101 assessment contribute to the invigilated practical mark
- understand which parts of the COMPSCI 101 assessment contribute to the theory mark
- understand that to pass COMPSCI 101, both the invigilated practical part of the course and the theory part of the course need to be passed
- understand an algorithm

🛃 We are using Canvas

We will be using the Canvas Learning Management system this system which can be accessed by logging onto the Canvas website:

Welcome to COMPSCI 101

Principles of Programming

Lecture 1 – Introduction

https://canvas.auckland.ac.nz

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The COMPSCI 101 Website

As well as using Canvas, COMPSCI 101 has a course website:

- https://www.cs.auckland.ac.nz/courses/compsci101s1c/
- Here you will find information about how our course is set up.
- > Get used to looking at this website for information about lecture slides, lab documents, assignment resources, assessments, people involved in the course and lots more.
- The COMPSCI 101 website can also be reached by through the COMPSCI 101 Canvas page. = COMPSCI 101





Course Information	2020 Semester One	THE UNIVERSITY OF AUCKLAND NEW ZEALAND Is Ware Waren to Break Releases	A.	enter keywords Sea
Document	Course Website Announcements	DETAILS	University home + Paculty of Science + Department of Computer Science + Archive + Computer Science	COMPSCI 101 51 C -
People	Lectures Lab Timetable	Propie Lectures Assignments Labs	Principles of Programming: CO 2020	MPSCI 101 Semester 1,
Lectures	Recordings	Tests and Exams Resources Archive	» Course Information Document » Lecture times and locations	
Assignments	CodeRumer3	Rights & Responsibilities Personal Portal Forums	** Lecture times and locations ** Requirements for passing the course ** Lab Sessions ** Timed CodeRunner Questions	
Labs			* Informents * Assignments * Marks * Marks * Invigilated Online Tests	
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People in this Course

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Open door policy – Visit any time



Lecture Schedule

The course information document gives an overview of the course assessment course along with a lecture schedule. Note that this is preliminary and may be subject to change



https://www.cs.auckland.ac.nz/courses/compscil0lslc/CourseInformation.pdf



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Lecture Slides

Lecture slides will be available on the web before each lecture.



https://www.cs.auckland.ac.nz/courses/compscil0lslc/lectures

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There is no Textbook for COMPSCI 101

There is **no textbook** but we do have an online reference book:

• Think Python – How to think like a computer scientist.

Please be aware that we are teaching the COMPSCI 101 material in a different order to the ordering in this book. This book is a reference book, not a textbook for this course.

	DETAILS	University home + Recurs of Science + Department of Computer Science + Courses + COMMOD 151 51 C + Resources +
	Course Page Course Enformation	Computer Science
	Cathories Assignments	Resources: COMPSCI 101 Semester 1, 2020
Resources	Late Tests and Elams Elamontes	Python Reference Book Miscellaneous Python
	E ferenal fonal E forume	Python Download (Remember to get version 3, not version 2 - the latest is version 3.8.2)
		 Python Documentation
		The Python Tutorial
		Reference Book
		Think Python (Version 1.1.24+Kart (Python 3.2))
		Miscellaneous
		 Additional resources maybe available from the University's Ubrary.

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You must attend **one** 2 hour tutorial lab sessions each week. You will have enrolled in your lab time through Student Services Online. You should attend the same lab time each week.

- Labs are held in room 279 (Building 303S) which is on the second floor of the Computer Science building.
- Labs start in the second week: March 9th 13th



¹⁴ https://www.cs.auckland.ac.nz/courses/compsci101s1c/labs/



- Labs start in the second week: March 9th 13th
- > There are 9 labs worth 9% of your final mark.
 - At your lab time you will be given programming problems to solve within the 2 hours for your lab.



https://www.cs.auckland.ac.nz/courses/compsci101s1c/labs/



Before the First Lab

Visit the lab on Wednesday between 1:30pm and 3pm.

- Before the first lab you need to complete the lab preparation sheet (I will hand this out).
- In order to fill the sheet you need to visit the COMPSCI 101 lab on Wednesday. Immediately after the lecture today I will be taking people across to the COMPSCI 101 lab.





The assignments are worth 15% of your final mark. Assignments give you the experience of solving problems on



https://www.cs.auckland.ac.nz/courses/compscil0lslc/assignments/



🛃 Assignments – Assignment Drop Box

There are 5 assignments in total worth 15% of your final mark. All assignments are due at 4:30pm on the due date.

For parts of these five assignments you are required to write and submit one or more programs.

These parts of the five assignments are handed in using the **Assignment Drop Box**

AUCKLAND	Assignment Drop Box	Home	Help	Abou
Log in				
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https://adb.auckland.ac.nz/Home/

Assignments – CodeRunner 3

For parts of these five assignments (a total of 6%), you are required to use CodeRunner 3.

https://coderunner3.auckland.ac.nz/moodle

The CodeRunner 3 tool is designed to help you practice by presenting you with a set of coding and other exercises. Submissions are graded by running a series of test cases on your code (or short answers) and comparing the output of your code (or short answers) with the expected output. CodeRunner3 uses the Moodle learning system.

Information about using CodeRunner 3 is available on COMPSCI 101 assignments web page:

https://www.cs.auckland.ac.nz/courses/compscil0lslc/assignments/



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Timed CodeRunner Exercises

There are 9 timed CodeRunner 3 exercises. Each exercise consists of 1 or more questions and is worth 1%.

Only the best 6 marks will be counted towards your final grade.

These exercises are timed which means that you will have to develop and implement your solution within a certain amount of time.

Usually 15 minutes are allocated per question.

The timed CodeRunner exercises will become available after the end of the sessions for each lab (i.e. after 7pm on Fridays) and each exercise will be available for 24 hours only.

These exercises are closely aligned to their corresponding lab

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Plagiarism: Any work that you take credit for, but which is done by someone else. This is treated very seriously in an academic







述 Two Invigilated Online Tests

There are two practical invigilated tests. The tests are answered and validated on CodeRunner 3.

Test 1: Morning of Saturday 2nd May – 20% of your final mark Test 2: Morning of Saturday 6th June – 25% of your final mark

The tests are 90 minutes. You should arrive 15 minutes before the test start time.

There is more information about the invigilated tests on the "Tests and Exams" web page:

https://www.cs.auckland.ac.nz/courses/compsci101s1c/exams/



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Written Exam

The exam is worth 25% of your final mark.

Information about missed exams, aearotats, etc.

Aegrotat and compassionate consideration Find out what to do if personal circumstances have affected your exam

performance or preparation.

See details >



Find out what to do if you have missed an exam

More information >

https://www.auckland.ac.nz/en/students/academic-information/exams-and-finalresults/during-exams.html

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	Passing	COMPSCI	101

Assignments, Timed		
Exercises , Labs	- 30%	
Labs	9 %	
Assignments	15%	
Timed Exercises	6%	

Two online tests	- 45%
Test I	20%
Test 2	25%



To pass the course you need:

- To pass the invigilated online test component. You need to obtain at least 22.5 marks out of 45 as the combined total mark for both tests.
- To pass the invigilated final written exam. You need to obtain at least 12.5 marks out of 25 marks for the exam.
- An overall mark of at least 50% out of the full course total of 100%





Piazza is a Q&A web service integrated into Canvas.

You can use Piazza to ask questions that the lecturers and your classmates can discuss and answer.

Please never post your own code up on Piazza!





Computing Resources

Undergraduate Labs

Computer Lab

There are demonstrators in these labs to help you

GCL (room 303S.G91) – Ground Floor

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Learning Outcomes for COMPSCI 101

- Determine the state of the program both during and after execution, given a code listing that may include functions and parameters, loops, conditionals and sequences.
- Implement a given algorithm using Python,
- Show that a program meets given specifications by writing appropriate tests.
- Provide a useful level of documentation, in the form of program comments, for all programs developed.
- Decompose a simple problem into several smaller tasks, given a brief textual description of the problem.
- Compose functions that perform specified tasks into a program that solves a given problem.



A finite set of steps that specify a sequence of operations to be carried out in order to solve a specific problem.



HOW TO

Algorithms – What Kind of Steps?

An algorithm is a well-defined,

unambiguous sequence of steps





Programming - Step 2 - write the code

We will use the **Python programming language** to implement our algorithms

