COMP(2041|9044) Staff

Course Goals

Convenor, Lecturer Andrew Taylor

Admin Dylan Brotherston

Tutors Anushka Menon, Bridget McCarthy, Carlin Williamson, Chloe Cheong, Coen Townson, Esther Wong, Evan Kohilas, Josh Harcombe, Matthew Di Meglio, Max Owen, Michael Hopkins, Minyi Zhong, Nicholas Berridge-Argent, Nikhil Ahuja, Noa Challis, Sage Barreda-Pitcairn, Samuel O'Brien, Tom Nguyen, Vivian Shen, Xavier Poon, Xiang Ji, Zac Kologlu, Zac Partridge, Zander Zhuang,

- First programming courses deal with . . .
 - one language (C or Python at CSE)
 - one program
 - small(ish) tightly-specified examples
 - narrow aspects of programming (e.g. basics, correctness)
- COMP(2041|9044) deals with ...
 - other languages (Shell, Perl)
 - combining multiple programs to solve problems
 - larger (less-small) less-specified examples
 - tools for working with software (e.g. git)
 - configuring systems (e.g package managers)
- get you to the point where:
 - you could build a package
 - put it on github
 - and have people download & use it
- TLDR COMP2041/COMP9044 will expand your coding skills

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Assumed Knowledge

At the start of this course you should be able to:

- write, debug, test programs in C or Python
 - OK for COMP2041/COMP9044 if you don't know C or Python
- understand fundamental data types (char, int, float, array)
- appreciate the use of abstraction in computing

Lectures

- Tuesday, 09:00—11:00; Thursday 14:00—16:00; delivered via Microsoft Teams Live Events & YouTube
 - you will have email about how to access the event
 - feel free to ask questions via chat
 - lectures recorded and linked from course home page
- present a brief overview of theory
- focus on practical demonstrations of coding
- demonstrate problem-solving (testing, debugging)
- Lecture slides available on the web before lecture.

Tutorials

Lab Classes

• Tutorials start in week 1.

■ Tutorials & labs online, via Blackboard Collaborate

you will have email about how to access Collaborate

tutes clarify lecture material

work through problems related to lecture topics

• give practice with design (think before coding)

answers available on the class webpage Friday afternoon

To get the best out of tutorials

attempt the problems yourself beforehand

• ask if you don't understand a question or how to solve it

■ Do *not* keep quiet in tutorials . . . talk, discuss, . . .

• Your tutor may ask for your attempt to start a discussion.

Each tutorial is followed by a two-hour lab class.

• Several exercises, mostly small implementation/analysis tasks

• Aim to build skills needed for assignments, exam

• Aim to give experience applying tools/techniques

Done individually

Submitted via give, before Tuesday 09:00 following week

■ Automarked (with partial marks) — 15% of final mark

• Labs may include challenge exercises:

may be silly, confusing, or impossibly difficult

• 95% possible for labs without completing any challenge exercises

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Weekly Tests

Assignments

From week 3, weekly tests:

programming tests

• immediate reality-check on your progress.

• done in your own time under self-enforced exam conditions.

• Time limit of 1 hour

■ Automarked (with partial marks) — 10% of final mark

best 6 of 8 tests used to calculate the 10%

lacktriangledown any violation of test conditions \Rightarrow zero for whole component

 Assignments give you experience applying tools/techniques to larger programming problems than lab exercises

• Assignments will be carried out individually.

• They *always* take longer than you expect.

• Don't leave them to the last minute.

■ There are late penalties applied to maximum marks, typically 2%/hour — organising your time \Rightarrow no penalty

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CSE offers an inclusive learning environment for all students.

In anything connected to UNSW, including social media, these things are student misconduct and will not be tolerated:

- racist/sexist/offensive language or images
- sexually inappropriate behaviour
- bullying, harassing or aggressive behaviour
- invasion of privacy

Show respect to your fellow students and the course staff

Cheating of any kind constitutes academic misconduct and carries a range of penalties. Please read course intro for details.

Examples of inappropriate conduct:

- groupwork on individual assignments (discussion OK)
- reading someone else's solution before stating an assignment
- allowing another student to copy your work
- getting your hacker cousin to code for you
- purchasing a solution to the assignment

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Plagiarism

- Labs, tests, assignments must be entirely your own work.
- You can not work on assignment as a pair (or group).
- Plagiarism will be checked for and *penalized*.
- Plagiarism may result in suspension from UNSW.
- Scholarship students may lose scholarship.
- International students may lose visa.
- Supplying your work to any another person may result in loss of all your marks for the lab/assignment.

Final Exam

- online practical exam, during exam period; you complete from home
- closed-book limited on-line language documentation available
- some multiple-choice/short-answer questions, similar to tut questions.
- some questions will ask you to read shell, Perl, regex, ...
- six (probably) implementation questions, similar to lab exercises
- most marks for questions which ask you to write shell or Perl
- also may ask you to answer written questions
- you *must* score 18+/45 on the final exam to pass course

- 15% Labs
- 10% Weekly Programming Tests
- 15% Assignment 1 due week 7
- 15% Assignment 2 due week 10
- 45% Final Exam

Above marks may be scaled to ensure an appropriate distribution

To pass you must:

- score 50/100 overall
- score 18/45 on final exam

For example:

55/100 overall and 17/45 on final exam \Rightarrow **55 UF** not 55 PS

- coding is a *skill* that improves with practice
- the more you practise, the easier you will find assignments/exams
- do the lab exercises
- take weekly tests seriously
- start the assignments early
- practise programming outside classes
- treat extra tutorial questions like exam practice

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