Course Topics

- regular expressions
- unix filters
- shell
- git
- python
- make
- linux: tools, concepts
Course Assessment

- 15% Labs
- 10% Weekly Tests
- 15% Assignment 1 — due week 7
- 15% Assignment 2 — due week 11
- 45% Final Exam

Above marks may be scaled to ensure an appropriate distribution

**To pass you must:**

- score at least 50/100 overall
- score at least 18/45 (40%) on final exam

For example:

55/100 overall, but only 17/45 on final exam ⇒ **55 UF** not 55 PS
Labs and Tests

- Labs, in weeks 1-5, 7-10:
  - max lab mark each week
    - 1.6 marks without challenge exercises
    - 0.4 marks for challenge exercises
    - or 2 marks if there are no challenge exercises
  - labs marks summed and capped to give mark /15.
  - you can get 95% for lab mark without challenge exercises
  - expectation: most people will get 12+/15

- Tests, in weeks 3...10:
  - max test mark each week:
    - 1.7 marks
  - best 6 of 8 test marks summed and capped to give mark /10.
  - expectation: most people will get 7+/10
The 23T2 Final Exam

- Final exam in CSE labs - closed book exam — no materials allowed.
  - but you will have access to offline language cheatsheets, documentation & man/info pages
  - same as weekly tests (and the practice exam)
  - You have been asked to indicate preference (preference form closes tomorrow)
  - We will be allocated you to preferred session if possible
  - You will receive an e-mail with a link to your allocation by Friday Week 11 at the latest
    - Probably Tuesday or Wednesday
- Wed afternoon session starts before morning session finishes
  - not permitted to leave Wed morning session early
  - not permitted to start Wed afternoon session late
  - Wed afternoon session allocation will indicate a tutorial room (not a CSE lab)
  - Wed afternoon session people accompanied to lab after morning session finishes
UNSW on-campus exam rules apply

- see https://www.student.unsw.edu.au/exam/rules

including:

- must bring your student card (other photo-id if student card lost)
- phone, smart watch, other electronic devices switched off in your bag
- you may bring a clear water bottle
- you may bring a clear pencil case with pens, pencils, eraser, ruler, ...
  - No calculator
  - must bring at least one pen or pencil to fill in a declaration form
- you can not bring your own keyboard/mouse or other hardware

Deliberate violation of exam conditions will be treated as serious misconduct.
Exam Environment

- Restricted exam environment - not your CSE account
  - similar to default CSE lab environment
  - If you attended the practice exam, you’ve seen the exam environment

- No access to internet

- No access to your files
  - no editor configuration files!
  - Syntax highlighting has been added for you

- Gedit, Vim, Emacs, Nano, VSCode, ED, etc. provided as editors: pick your favourite

- Standard CSE lab machine commands available

https://www.cse.unsw.edu.au/~cs2041/23T2/
8-15 questions ... *not* of equal difficulty, *not necessarily* worth equal marks.
- generally, easier questions are towards the start of the exam, harder questions towards the end.
- but difficulty is subjective, so you might find that some questions are easier than earlier questions.

Each question answered in a separate file.

Most questions will involve writing programs ...

Some questions will ask you to write a Shell script.
- or perhaps a single pipeline
- or perhaps a single regular expression

Some questions will ask you to write a Python script.
- Python questions will likely specify you can not run external commands
  - e.g. can not use `subprocess`
- Python questions may specify you not use certain packages
  - e.g. can not import `requests`

If a question specifies any additional restrictions or limitations, you must follow them.
- otherwise you will not receive any marks for the question.

Other languages are not permitted (e.g., Perl, C, Java, Rust, ...)

Answers will be submitted with `give`.
- Autotesting your code is *not* a submission.

It’s possible that some questions may not involve coding ...
- questions could ask for a short answer,
Exam Format — Programming Questions

For questions that require you to write Shell or Python ...

- Questions will include examples.
- You may, or may not, be given starting code, test data, or other files.
  - If you are not given starting code, you must create your own files.
    - The name of the file will be specified in the question.
- Autotests may be available for some questions.
  - **Passing autotests does not guarantee any marks**; do your own testing.
  - There may be no autotests for some questions.
- If autotests are available they will run on submission
  - This will be disabled in the last ~10 minutes of the exam.
    - So that submissions are faster to process.
- It is **not** sufficient to match any supplied examples.
- Questions may specify additional restrictions or limitations imposed on your program.
  - You must follow these restrictions or limitations otherwise you will not receive any marks.
  - Questions with additional restrictions will be hand-marked to ensure you have followed them.
- Autotesting your code is **not** a submission.
  - You **must** submit your code with `give`.
Answers will be run through automatic marking software.
  - Please follow the input/output format shown exactly.
  - Please make your program behave exactly as specified.

Answers that don’t pass all automatic marking tests are hand-marked, guided by automarking.
  - no marks awarded for style or comments ...
    - but a human marker will be reading your program
      and you need to read your program
      so use reasonable style, variable names, ...
  - comments only necessary to tell the marker something.
  - do not include your name in comments

Minor errors will result in only a small penalty.
  - e.g., an answer correct except for a missing semi-colon
    would receive almost full marks.

No marks will given unless an answer has a substantial part of a solution (> 33%).
No marks just for starting a question and writing some generic code.
Zero marks for submitting starter code even if it passes some autotests.
Exam Format — Non-coding Questions

- Each question will specify a file to write your answer in.
- Answers must be in the specified file, e.g. q1.txt
- Question may specify format of file:
  - e.g., 5 integers, one per line ...
  - follow this format exactly
- Questions will give you an initial file to complete.
A past Final Exam will be released by noon Monday at:
https://cgi.cse.unsw.edu.au/~cs2041/23T2/exam/practice/questions

Encouraged to complete it as a practice exam
- under exam conditions & with time limit

Autotests available
- don’t need to give (no marks involved!)

Sample answers will be released noon Saturday Week 11

this term’s exam will use similar format similar for at least some questions
Any extra time specified in your ELS exam conditions is allowed in this exam.

All students see the same exam question text.

The text shows the standard exam deadline, any extra time is additional to it.

- if in doubt ask exam supervisor

email cs2041@cse.unsw.edu.au if you have concerns regarding ELS conditions

If your ELS conditions prevent you from taking the exam, let us know.
UNSW policy is that you may be required to take two exams in one day.

Exams Unit generally don’t consider all-day exams a clash and special consideration is not generally offered.

As we have exams on two separate days there should be anyone with a clash.
Special Consideration ("Fit-to-Sit")

*This exam is covered by UNSW's Fit-to-Sit policy.*

By starting the exam, you are saying

"I am well enough to finish the exam."

- If you are unwell *before* the exam:
  - Do not attend the exam
  - Apply for Special Consideration.
  - See a Doctor and get a medical certificate ASAP.
- If you become unwell *during* the exam:
  - talk to an exam supervisor ASAP
Important Areas to Focus Your Study On
- anything covered in a standard lab exercise
- anything covered in a weekly test
- anything covered by assignments (except hardest subsets)

Less Important Areas
- challenge lab exercise
- topics not covered in labs, tests or assignments
- anything covered by hardest subset of assignment
- may still be questions on these topics but not many
Marking will take time — likely 10-12 days.

When marking is complete, exam marks will be available on the course webpage “marks” page. We’ll send an email (Ed Announcement) announcing this.

You will receive marks for individual exam questions.

You will have an opportunity to have your marking reviewed.

- marks are reviewed if there is an issue with the marking not because you disagree with the mark you received.

Final results will appear on myUNSW.
Supplementary Assessment

- If you miss the original exam due to illness/misadventure, you may be eligible for a supplementary exam; apply for special consideration. Schools and individual courses cannot offer supps.

- Students with borderline results are **not** offered supps. (... except potential graduands.)

- Similar format to final exam.

- Supp exams will be in T3 week 0 in CSE labs.
So many important things to learn: regex, filters, Shell, git, Python ...
  - not nearly enough time to cover everything well

labs a lot of work
  - but a good way to understand the topics (agree?)
  - and you practised some really useful skills (agree?)

assignments a **lot** of work
  - but really improved your Shell/Python (agree?)
  - and also gave you deep understanding of git (agree?)

Python coverage needs to be better organized and cater better to varying Python experience of students

missing labs on linux
  - need lab exercises where you manipulate a linux system
- Labs & tutes (do you agree?)
- Weekly Tests (do you agree?)
- Tutors
- Students
And that’s all ...

- Good Luck
- I hope what you’ve learnt in this course will be useful.
- I hope you get the mark you deserve.
- Good Luck on your exams (for this course and others).
  - We will see most (all?) of you during the exam.