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)

• Three sessions: afternoon Tue 15 Aug, morning Wed 16 Aug, afternoon Wed 16 Aug
  • 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

Exam Conditions

• 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

Exam Format

- 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.
- 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.

Past Final Exam

• 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
Special Exam Conditions

- 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.

Exam clashes

- 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
What to study

• 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

Timeline: Provisional Results

• 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

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.