Course Wrap-up

- COMP2521 20T2 Summary
- Final Exam
- After COMP2521

❖ COMP2521 20T2 Summary

Data Structures and Algorithms

- ADTs, Algorithms, Complexity analysis

- Trees: ADT, BSTs, Splay, AVL, 2-3-4, Red-black

- Graphs: ADT, Breadth/Depth-first, MSTs, SSSP

- Priority: Heaps, Priority queues

- Searching: Hashing, Tries

- Sorting: $O(n^2)$ algorithms, $O(n \log n)$ algorithms

- Strings: pattern matching, text compression

- Tools: make, gdb, gprof, recursion, Higher-order functions

❖ ... COMP2521 20T2 Summary

Assessments

- Assignment 1 (trees) ... worth 15%

- Assignment 2 (~graphs) ... worth 15%

- Labs ... best 5 of 7 ... worth 18%

- Quizzes ... best 6 of 8 ... worth 12%

- Final Exam (most topics) ... worth 40%

Note: must score ≥ 17/40 on final exam, otherwise UF

❖ Final Exam

Held on Saturday 15 August, starting at 10am

- runs over 24 hours (Sat 10am - Sun 10am)

- 2 programming questions (15 + 15 marks)

- 6 "written" questions (30 marks total)

- paper will be available via Webcms3

- submit answers using Give or Webcms3

- can work on home machine or on CSE servers

- do at your own pace; should take ~3 hours of work

Sample Exam available now to show structure (under "Exam Stuff")

❖ ... Final Exam

Written questions (6 of them)

- like the Tutorial questions (see Sample Exam)

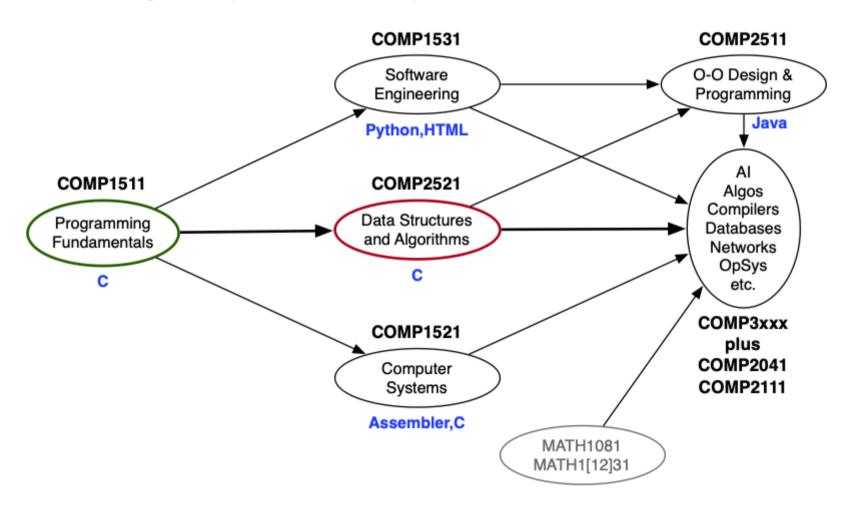- template `*.txt` files, edit with any text editor

Programming questions (2 of them)

- like the Practice Programming Problems

- template `*.c` files, `Makefile`, testing stuff

- knowing **gdb** can help to get you out of trouble

- do another question if you get stuck, come back to it

How much time per question? Allow at least 3*marks

❖ After COMP2521

COMP2521 is a gateway course to many COMP[349]xxx courses

Produced: 9 Aug 2020