COMP1917: Computing 1

20. Course Review

Topics Covered

1. Introduction
2. Numbers In, Numbers Out
3. Making Choices
4. Loops
5. Functions
6. Binary and Hexadecimal
7. Number Storage and Accuracy
8. Characters and Arrays
9. Pointers
10. Strings and Files
11. Writing a Makefile
12. Debugging
13. Structures
14. Linked Lists
15. Stacks and Queues
16. Binary Search Trees
17. Memory and Stack Frames
18. Machine Language
19. Sorting and Efficiency

Beyond COMP1917

- COMP1927: Computing 2
- COMP2911: Engineering Design in Computing
- COMP2041: Software Construction
- COMP2121: Microprocessors and Interfacing
- Elective courses in Artificial Intelligence, Networking, Databases, Service-Oriented Computing, Algorithms, Game Design, Languages and Compilers, etc...

Assessment

Programming Assignments	8+12 = 20%
Weekly Lab Exercises	9%
Tutorial Presentation	1%
Prac Exams	6+9+15 = 30%
Final Exam (Written)	40%
Total	100%

Hurdle Requirements

To pass the course, you must score at least:

- 12/ 30 for [Assignments + Labs + Presentation]
- 12/ 30 for [Prac Exams]
- 15/ 40 for Final Exam (Written)
- 50/100 overall

Written Exam

- many of the questions on the Written Exam will be on Program Understanding.
  - for a given program, what output will be printed?
  - for a given function, what will it compute?
  - find the errors in a given piece of code, and correct them
  - modify a given piece of code, to make it behave in a different way
- there will be one or two questions asking you to write a C program or function.
- there will also be a component on Number Representation and Machine Language.

Exam

Note:

- you are NOT allowed to bring course notes or other materials
- you MAY bring a UNSW approved calculator
- list of Machine Language instructions will be included

Studying for the Exam

- Lectures and Course Notes
- Sample Programs
- Tutorial / Laboratory Exercises
- Assignments
- Sample Exam
- Textbook (Moffat)

Checking Answers to Sample Questions

- Tutorial and Lab Exercises
  - sample answers are on the course Web site
- Program Understanding Questions
  - Course Notes, copy-and-paste, compile and run
- Machine Language Question
  - type code into simulator and check values of registers

Questions?

Good Luck!