COMPSCI 210 S1T
Computer Systems

Course Information

COMPSCI210

- Course Description
  - Course aims to give students an understanding of how computer systems work, at the lowest level seen by the programmer, namely the interface between the computer hardware and software.
- Contents
  - Data Representation x 4 weeks
    - Number Representation
      - Binary, Octal, Decimal, Hexadecimal
    - Arithmetic Operations
      - Add, Subtract, Multiply, Divide
    - Unsigned and signed Numbers
      - Unsigned, Signed and Magnitude, Excess (biased), 2's complement
    - Bit Operations
    - Alphanumeric Representation: ASCII & Unicode
    - Representation of structured data
  - Assembly language x 4 weeks
  - C Programming Language x 4 weeks

Lecturers & Tutor ...

- Lecturers
  - Dr Patrice Delmas (Supervisor)
    - Email: patrice@cs.auckland.ac.nz
  - Prof James Goodman
    - Email: goodman@cs.auckland.ac.nz
    - Phone: 3737599 ext: 88752
    - Room 303-591 (city)
  - Angela Chang
    - Email: angela@cs.auckland.ac.nz
    - Phone: 3737599 ext 86620
    - Office: 731.308 (Tamaki)
    - Office hrs:
      - Fri 1:30pm-2:30pm
- Tutor:
  - Justin Nguyen
    - Email:hngu039@ec.auckland.ac.nz
- Class Rep:
  - ?

Timetable

12:30-1:30	T	Th	F Tutorial
1:30-2:30			Angela – Office hr
2:30-3:30	Lecture	Lecture	Lecture

Assignments

	Subject	Approx Date Out	Due Date	% of the final mark
Mini-A1	Data Representation	27-Feb	16-Mar	3.33%
A2	TBA	TBA	TBA	6.67%
Mini-A3	Data Representation	15-May	25-May	3.33%
A4	C	15-May	4-Jun	6.67%

Assignments

- Assignments will be submitted in the city assignment Drop Box
  - Except A1 and A3
- You will receive, with your assignment clear directives, regarding file names formatting that will have to be submitted.
- Don't pass your work to someone else, don't copy some one else's work: you will receive zero if caught (we won't try to find out who did it, who copied. It will be zero for both students)
- Marking
  - An assignment incorrectly submitted will not be marked: 0 marks
  - For assembly and C, an assignment not compiling will receive 0 mark
  - Submission after Deadline (submission 5 minutes after deadline is fine, 5 hours after is not) will not be marked

Miscellaneous

- Email:
  - You MUST check your university email account on a weekly basis as vital information may be sent to you regarding assignments, deadlines, etc...
- Forum:
  - Again, check the forum on a weekly basis too
  - Don't put any source code/answer on to the forum
  - Tutor and/or lectures will also check the forum and provide some information
- Lectures:
  - We will have 3 lectures a week. You need to keep up with the pace:
  - Each new lecture will require you to know and understand the content of the previous lectures.
  - You must do the exercises provides with the lecture notes to make sure you really understand the course content
- Tutorials
  - Tutorials are a great way to supplement lectures
  - Tutors are here to help
  - Outside office hours and tutorials, tutors are not supposed to be at hand

How to progress while learning

- 1. Read the lecture notes after each lecture
  - a. Make a summary of what has been seen on the lectures
  - b. Redo examples already treated (during the lectures) or/and do the untreated examples
  - c. Do examples without refereeing to the lectures
- 2. If you have questions or do not understand something
  - a. Do 1
  - b. Attend the tutorials
  - c. Check the forum
  - d. Ask other 210 students
  - e. Ask a tutor during office hours
  - f. Email/see lectures
- 3. How to prepare exams
  - a. Do previous years exams
  - b. Do exercises of the course/tutorials/exercise course book