

00BeforeIntroduction

This class is Programming and Algorithms (COMP1038 UNNC)

Teachers Info:

Convenor: **Michael Li**

Office: PMB-426

Office hours: 14:00-16:00 Wednesday

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Convenor: **Pushpendu Kar**

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Office hours: 15:30 - 17:30 Thursday

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Convenor: **Wooi Ping Cheah**

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Textbook

C: How to Program (8th Edition), Paul Deitel and Harvey M. Deitel, 2016

Assessments

- Assessed coursework- 75%
 - 2 In-Lab assessments - 5%
 - CW1 assignment - 30%
 - CW2 assignment - 40%
- Exam - 25% 1h

Lecture Schedule

- **Lecture schedule:**
 - Wednesday 11:00-13:00, DB-A05
 - Thursday 9:00-10:00, DB-A05

Please bring pens, paper, etc, to lectures as you will need to make notes based on what the conveners are saying and doing. The lecture slides will not show all the information in the course; they are summaries of what I am saying and doing during the lectures.

If you wish to make notes using a laptop or tablet then we are ok with that but:

- **you must run your device using the battery. It is too dangerous to have power cables running across the lecture room floor.**

Teaching Week	Week starting	Lecture Topics (exact schedule may vary)	Lab	Coursework	Tutorial	Pre-reading (also see slides)	2nd Pass Content (may vary)
1	19th Sept	Module IntroC Overview Selection statements	Checking calinux access		No tutorial	Chp 1, 2	
2	26th Sept	Selection statements Iteration statements	Selections, iteration exercises		Data types and Conversion	Chp 3, 4	Build Systems
3	10th Oct	Arrays	Iteration, array exercises		Control and iteration	Chp 6	Undefined Behaviour
4	17th Oct	Pointers	Pointer exercises In-lab assessment (selection, iteration and array)		Pointers and arrays	Chp 7.	Debug
5	24th Oct	Functions	Function exercises		Functions	Chp 5	Multiple source files and C preprocessor
6	31st Oct	Strings	Function, String exercises In-lab assessment (functions)		Dynamic memory allocation and strings	Chp 8, 9	External libraries
7	07th Nov	Structures	Structures exercises	CW1 start	Debugging	Chp 10	
8	14th Nov	Major data structures	Data-structure exercises		Linked lists	Chp 12	Efficiency considerations in C.
9	21st Nov	Files	File, IO exercises	CW1 end CW2 start	Pointers to pointers	Chp 9, 11	File format parsing
10	28th Nov	Extended example	Comprehensive exercises		Miscellaneous		Automated testing
11	05th Dec	Advanced Pointers Variable argument lists + Module review	Comprehensive exercises		TBD	Chp 14	"OOP" in C
12	12 Dec	(self-study week)		CW2 end			
13	20 Dec	(self-study week)					

Labs

Lab schedule:

Group COMP1038/C1/**01**: Friday 9:00 --- 11:00 IAMET-406

Group COMP1038/C1/**02**: Friday 12:00 --- 14:00 IAMET-406

Lab and Tutorial Group Assignments

See the Faculty Office of Science & Engineering moodle page for the group assignments.

Your group numbers for the Labs (also called "Computing Group") are given in these files.

Your lab number and your tutorial number may be different! Please check both sheets carefully to make sure you attend the correct group for each type of session. Please also check your timetable carefully as group 2 may be before group 1, for example.

If you are registered for PGA but not in the group files, please email the module convenor.

YOU MUST ATTEND THE SESSION YOU ARE TIMETABLED FOR. You will be counted as absent if you do not attend your timetabled session. *You will not be allowed in the room during the other session.*