

## Computer Programming (EE1005)

**Time / Location:** Monday 13:00-14:50 (E1-223), Thursday 15:00-16:50 (E1-120)

**Instructor:** Chien-Nan Liu (劉建男) **Email:** [jimmy@ee.ncu.edu.tw](mailto:jimmy@ee.ncu.edu.tw)

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**Office Hours:** Thursday 13:00-14:00; other time by appointment only.

**Prerequisites:** introduction to computers

**Text Book:** H. M. Deitel and P. J. Deitel, "C How to Program", 5<sup>th</sup> Ed., Prentice Hall Inc., 2007.

### Grading:

Lab: 15%, Homework: 20%, Project: 30%, Final 35%

**On-Line Resources:** Lecture notes, homeworks / tests, sample solutions, grading information, and other course-related materials are available at <http://www.ee.ncu.edu.tw/~jimmy/courses/PRG10>

### Class Schedule:

	Thursday	Monday
Week 1 (2/22, 2/25)	Introduction to C/C++ Programming	<i>Introduction</i>
Week 2 (3/1, 3/4)	Solving Problems by Programming	None
Week 3 (3/8, 3/11)	C/C++ Formatted Input/Output	<i>Tool Usage</i>
Week 4 (3/15, 3/18)	Control Structures (if, switch)	<i>Lab</i>
Week 5 (3/22, 3/25)	Loop (while, for, nested loop)	<i>Lab</i>
Week 6 (3/29, 4/1)	<b>Holiday</b>	<i>Lab</i>
Week 7 (4/5, 4/8)	Functions	<b>Holiday</b>
Week 8 (4/12, 4/15)	Recursive Functions	<i>Lab</i>
Week 9 (4/19, 4/22)	Arrays	<i>Lab</i>
Week 10 (4/26, 4/29)	C Characters and Strings	<i>Lab</i>
Week 11 (5/3, 5/6)	Pointers (intro + call-by-reference)	<i>Lab</i>
Week 12 (5/10, 5/13)	Pointers (its arithmetic, pointer vs array)	<i>Lab</i>
Week 13 (5/17, 5/20)	Structure and Bit Manipulations	<i>Lab</i>
Week 14 (5/24, 5/27)	File Processing	<i>Lab</i>
Week 15 (5/31, 6/3)	Dynamic Memory Allocation (linked lists)	<i>Lab</i>
Week 16 (6/7, 6/10)	Dynamic Memory Allocation (part II)	<i>Lab</i>
Week 17 (6/14, 6/17)	Project Demo	<i>Lab</i>
Week 18 (6/21, 6/24)	<b>Final</b>	<b>Happy~~</b>