



# CS 135502 計算機程式設計一 (Introduction to Programming (I))



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Office Hour: Tuesday morning 10:00-12:00



# People

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# Course Outline

- CH. 1 Getting Ready
- CH. 2 Introducing C
- CH. 3 Data and C (Intro to GDB)
- CH. 4 Formatted Input/Output
- CH. 5 Operators, Expressions, and Statements
- CH. 6 Control Statements: Looping
- CH. 7 Control Statements: Branching
- CH. 8 Character I/O and Redirection
- CH. 9 Functions
- CH. 10 Arrays and Pointers
- CH. 11 String Functions
- CH. 13 File Input/Output
- CH. 15 Bit Manipulation
- CH. 12 Memory Management
- CH. 14 Structures
- CH. 16 The C Preprocessor and the C Library
- CH. 17 Advanced Data Representations
- Final Project



# Required Textbook

- S. Prata, C PRIMER PLUS. SAMS.



# Reference Textbook

- B. W. Kernighan and D. M. Ritchie, THE C PROGRAMMING LANGUAGE, Second Edition. Prentice Hall, 1988.



# Additional Resources

- Essential C

<http://cslibrary.stanford.edu/101/EssentialC.pdf>

- The C Book

[http://publications.gbdirect.co.uk/c\\_book/the\\_c\\_book.pdf](http://publications.gbdirect.co.uk/c_book/the_c_book.pdf)

- MIT: A Crash Course in C

<http://www.mattababy.org/~belmonte/Teaching/CCC/handouts.pdf>

- The GNU C Standard Library Reference Manual

[http://www.gnu.org/software/libc/manual/html\\_mono/libc.html](http://www.gnu.org/software/libc/manual/html_mono/libc.html)



# Grading

The grade is based on the scores of several labs, one written exam, two midterm exams, one final exam, and the final project, with the following percentages:

1. Online judge labs (15%) — every week
2. One written exam (10%)
3. Two midterm online exams (10% + 20%)
4. One final online exam (30%)
5. Final project (15%)

課程規定與成績計算方式:

15% 每周一次 Lab (Online Judge), 如果無法出席必須按學校規定請假

10% 一次筆試

10%+20% 兩次期中考 (Online Judge, 限定使用 C 語言)

30% 一次期末考 (Online Judge, 限定使用 C 語言)

15% 期末專題 (學期結束後一週 demo, 預計12/14(六)針對期末專題主題舉辦 "一日程式設計馬拉松")