程式設計(一) C Language Programming

班級:　　　資訊工程系一甲, 一乙

學期:　　　九十四學年度上學期

教師:　　　張燕光

辦公室:　　**4225B**

教室:　　　　　或 電腦教室

上課時間: 一甲週三**8,9** 堂和 週四 **9** 堂　一乙週三**7** 堂和 週四 **7,8** 堂

電話:　　　(06) 275-7575 轉 62539

電子郵件: ykchang@mail.ncku.edu.tw

WWW:　　TBA (To Be Announced)

Textbook: A Book On C by Al Kelley and Ira Pohl

Teaching Assistants (TA): 丁義偉

Topics:
  1. Introduction and Overview of C [**1**], **2**. Flow Control [**2**], **3**. Functions [**3,4,Demo#1-2**],
  4. Arrays, Pointers, and Strings [**5,6**],　**5**. Characters and Strings [**7**],
  6. Input and Output [**8**] [9 **mid-term and Demo#3-4**]
  7. Bitwise Operators and Enumeration Types [**10**], **8**. The Preprocessor [**11**],
  9. Structures and Unions [**12,13, Demo#5-6**], **10**. Structure and List Processing [**14,15**],
  11. Advanced topics (inline assembly, gdb …) [**16,17,demo**: #7-#8], **12**. Final [**18**]
  * number in [] indicates the week when the corresponding topic will be covered.

評分標準 (Grading Policy)
  1.　Homework :　　　　40% (6-8 Programss)
  2.　Attendance/Quiz:　　10% (at least once two week)
  3.　Mid-term :　　　　25%
  4.　Final Exam:　　　　25%

How to pass this course:
1.　You need to concentrate on the lecture in class (3 hours a week). (please take notes)
2.　You need to write the programming assignments by yourself. It takes a lot of time to complete the programming assignments (unpredictable amout of time, debugging).
3.　You need another 9 hours per week to study the lecture notes and textbook. You are encouraged to read the English version of the textbook. ***Do not*** read the Chinese translation version.
4.　It is required to use the ***gcc*** compiler in UNIX. Prior to writing your first C program in UNIX, you need to learn how to use a text editor in UNIX, which I prefer you to learn ***vi*** editor. (I am sure that you will not like *vi* in the beginning, but you will like it after you know it in the long run.)
5.　Submit your program code with the result outputs from a sample run through ftp site (TBA).
6.　In addition to uploading your program, you also need to turn in the hardcopy printout of your program and its results when you demo your programs to TA.
※ Due day: in class or 5 pm if no class that day and late penalty is 5 points per day, up to 5 days
※ ※ **copy homework is treated as negative points**.