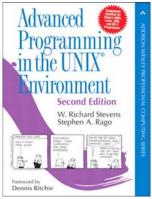
系統程式 System Programming http://www.cs.ccu.edu.tw/~pahsiung/courses/pd/

熊博安 國立中正大學資訊工程學系 <u>pahsiung@cs.ccu.edu.tw</u> (05)2720411 ext. 33119

Text and Reference Book

Advanced Programming in the UNIX Environment, 2nd Edition, W. Richard Stevens, Stephen A. Rago, Addison Wesley, 2005, 開發代理 (927 pages), "APUE" in short





2nd Edition

Syllabus	
Τορίς	

Topic	Chapter	Week
 Overview 	1	1 - 2
Files, Dirs, Std I/O, Sys Info	3 – 6	2 - 7
Process Env & Control	7,8	7 - 9
Mid-Term Exam		9
 Signals 	10	10 - 11
Threads & Control	11, 12	12, 13
IPC	15	12, 13
 Sockets 	16	14, 15
 Project Presentations 		16, 17
Final Exam		18

Grading Mid-Term Exam 25% Final Exam 25% Project 25% Program Assignments 25% Bonus (Q/A, quiz, attendance, ...)

Dates

- Midterm Exam: 4/26 14:45~16:15
- **Final Exam**: 6/26 14:45~16:15
- Project: (see later slides)
 - Proposal,
 - Report and Presentation, and
 - Demonstration

Program Assignments

2 weeks for each program

Rules

- <u>NO COPYING</u> of assignments/projects (a single case of copying → BOTH parties will get ZERO point for ALL assignments and projects)
- NO CHEATING in exams (BOTH parties will get ZERO points for that exam)

Rules (cont'd)

Class Quiz:

- Correct Answer → Bonus Points
- Wrong or No Answer → Deduction Points
- Class Attendance:
 - 1 absence → Deduct 5%
 - 2 absences → Deduct 10%
 - n absences → Deduct 5n%

Project Schedule

- Project Proposal:
 - Deadline: April 10, 2007, 14:45
 - Group: 3–5 students / group
 - Submit: <u>title</u>, <u>members</u>, <u>abstract</u>
- Project Results (25%):
 - Report (5%): June 12, 14, 2007
 - Presentation (10%): June 12, 14, 2007
 - Demonstration (10%): Before Final Exam (6/26)

Project Topics (not from textbooks!)

- Real-time programming
- Embedded software programming
- Device driver programming
- Network programming
- Encryption/decryption
- Image processing
- Video processing

Project Topics (not from textbooks!)

- Event simulator
- Emulator
- Graphical user interface
- File & directory synchronization
- Database programming
- Modem programming
- Printer programming, ...

System Programming

ENJOY THE COURSE!!!