


國立東華大學
教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	作業系統		學年/學期 Academic Year/Semester	106/1	
課程名稱(英文) Course Name in English	Operating Systems				
科目代碼 Course Code	CSIEB0170	系級 Department & Year	學三	開課單位 Course-Offering Department	資訊工程學系
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)	3.0/3.0		
授課教師 Instructor	/陳旻秀				
先修課程 Prerequisite					
課程描述 Course Description					
The goal of the course is to let you understand					
1. the major operating systems components					
2. the computer system organizatio					
課程目標 Course Objectives					
使修習者了解計算機運作之原理與計算機資源之管理					
系專業能力 Basic Learning Outcomes				課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.' s Education Objectives	
A	資訊專業終身學習能力Profound professional knowledge and skills			●	
B	實驗驗證資訊科學能力Sound and free spirit; simple and generous quality			●	
C	資訊工具整合運用能力Ability to appreciate beauty and think creatively			●	
D	資訊系統應用設計開發能力Sense of democracy, the rule of law, and civil responsibility			○	
E	團隊合作溝通協調能力Ability of communication, teamwork, and social practice			○	
F	資通訊科技問題解決能力Possess both domestic and global perspectives			○	
G	瞭解資訊科技多元影響能力Knowledgeable and possess the quality of humanism			○	
H	肩負資訊人社會責任能力Ability of verbal expression and information organization and application				
圖示說明Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated					
授課進度表 Teaching Schedule & Content					
週次Week	內容 Subject/Topics			備註Remarks	
1	Introduction				
2	System Structure				
3	Process Concept				

4	Process Concept	
5	Multithreaded Programming	
6	Multithreaded Programming	
7	Process Scheduling	
8	Process Scheduling	
9	期中考試週 Midterm Exam	
10	Synchronization	
11	Synchronization	
12	Deadlocks	
13	Deadlocks	
14	Memory-Management Strategies	
15	Memory-Management Strategies	
16	Virtual-Memory Management	
17	Virtual-Memory Management	
18	期末考試週 Final Exam	

教學策略 Teaching Strategies

- 課堂講授 Lecture
 分組討論 Group Discussion
 參觀實習 Field Trip
 其他 Miscellaneous:

學期成績計算及多元評量方式 Grading & Assessments

配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							其他
		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	
平時成績 General Performance	10%								
期中考成績 Midterm Exam	30%	✓							
期末考成績 Final Exam	40%	✓							
作業成績 Homework and/or Assignments	30%		✓						
其他 Miscellaneous (_____)	0%								

評量方式補充說明
Grading & Assessments Supplemental instructions

教科書與參考書目 (書名、作者、書局、代理商、說明)
Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

Operating System Concepts
 Ninth Edition
 Avi Silberschatz Peter Baer Galvin Greg Gagne
 John Wiley & Sons, Inc.
 ISBN 978-1-118-06333-

課程教材網址（教師個人網址請列在本校內之網址）
Teaching Aids & Teacher's Website (Personal website can be listed here.)

其他補充說明 (Supplemental instructions)