

Tamkang University Academic Year 108, 2nd Semester Course Syllabus

Course Title	OPERATING SYSTEM PRACTICES	Instructor	LIOU, AY-HWA ANDY
Course Class	TLMXB2A DEPARTMENT OF INFORMATION MANAGEMENT, 2A	Details	<ul style="list-style-type: none"> ◆ Blended Course ◆ Required ◆ One Semester ◆ 2 Credits
Departmental Aim of Education			
<ul style="list-style-type: none"> I. Refining information management skills. II. Enhancing information technology capabilities. III. Thinking independently with logic analysis. IV. Reinforcing team-working spirit. V. Valuing business and information ethics. VI. Cultivating global view. 			
Subject Departmental core competences			
<ul style="list-style-type: none"> A. Problem analysis and critical thinking.(ratio:80.00) C. Applications of information systems.(ratio:10.00) G. Analysis, design and integration of information system.(ratio:10.00) 			
Subject Schoolwide essential virtues			
<ul style="list-style-type: none"> 2. Information literacy. (ratio:20.00) 5. Independent thinking. (ratio:80.00) 			
Course Introduction	<p>After the students have basic concepts about the computer hardware and process scheduling from previous course of Operating Systems, this course focuses on advanced concepts of process synchronization, memory management, deadlocks, file systems, and secondary storage structures. Some examples of related system programs will be demonstrated too.</p>		

The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.

Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.

I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.

II. Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.

III. Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

No.	Teaching Objectives	objective methods
1	Aware of the principle of the Operating Systems and its methods of operation.	Cognitive
2	Understand the evolvement of Operating Systems and its current trend of development.	Affective
3	Apply the knowledge of Operating Systems to give suggestions or analysis for the work and problems facing.	Affective

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	C	25	Lecture, Practicum	Testing, Study Assignments, Discussion(including classroom and online), Activity Participation
2	AG	25	Lecture, Discussion	Testing, Study Assignments, Report(including oral and written), Activity Participation
3	G	25	Lecture, Discussion	Testing, Study Assignments, Activity Participation

Course Schedule

Note for Blended Course : When utilizing weekly digital instruction, please fill in "Online Asynchronous Instruction".

Week	Date	Course Contents	Note
1	109/03/02 ~ 109/03/08	Synchronization	
2	109/03/09 ~ 109/03/15	Synchronization	
3	109/03/16 ~ 109/03/22	Synchronization	
4	109/03/23 ~ 109/03/29	Synchronization	

5	109/03/30 ~ 109/04/05	Synchronization	
6	109/04/06 ~ 109/04/12	Deadlocks	
7	109/04/13 ~ 109/04/19	Deadlocks	
8	109/04/20 ~ 109/04/26	Deadlocks	Online Asynchronous Instruction
9	109/04/27 ~ 109/05/03	Midterm Exam Week	
10	109/05/04 ~ 109/05/10	Memory Management Strategies	
11	109/05/11 ~ 109/05/17	Memory Management Strategies	
12	109/05/18 ~ 109/05/24	Memory Management Strategies	
13	109/05/25 ~ 109/05/31	Memory Management Strategies	Online Asynchronous Instruction
14	109/06/01 ~ 109/06/07	Virtual Memory Management	
15	109/06/08 ~ 109/06/14	Virtual Memory Management	
16	109/06/15 ~ 109/06/21	File System	
17	109/06/22 ~ 109/06/28	Final Exam Week (Date:109/6/18-109/6/24)	
18	109/06/29 ~ 109/07/05	Supplementary teaching: File System	
Requirement	Mark of usual includes: TA 5% HW, Online Exam, and notes 35%		
Teaching Facility	Computer, Projector		
Textbooks and Teaching Materials	Operating System Concepts, 9th edition, by Silberschatz, Galvin, and Gagne (新月)		
References			
Number of Assignment(s)	4 (Filled in by assignment instructor only)		
Grading Policy	◆ Attendance : 5.0 % ◆ Mark of Usual : 40.0 % ◆ Midterm Exam : 25.0 % ◆ Final Exam : 30.0 % ◆ Other < > : %		

Note	<ol style="list-style-type: none">1. This syllabus may be uploaded at the website of the Course Syllabus Management System at https://info.ais.tku.edu.tw/csp or through the link of the Course Syllabus Upload posted on the home page of the TKU Office of Academic Affairs http://www.acad.tku.edu.tw/CS/main.php2. According to the Implementation regulations of distance education for junior college and above are prescribed pursuant to Article 2, "The distance learning course referred to in these Measures refers to more than one-half of the teaching hours in each subject."3. According to the regulations of Tamkang University Enforcement Rules for digital teaching, Paragraph 2 and Article 3, the distance learning course of our school must be "The course of digital teaching with distance learning platform or synchronous video system in our school. Teaching Hours include course lectures, teacher-student interaction discussions, quizzes and other learning activities."4. If there are any temporary course changes (including time changes and classroom changes of distance learning courses, blended courses), please make out an application according to regulations to the Office of Academic Affairs. <p>※ Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</p>
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