

## Tamkang University Academic Year 108, 1st Semester Course Syllabus

Course Title	OPERATING SYSTEMS	Instructor	LIOU, AY-HWA ANDY
Course Class	TLMXB2A DEPARTMENT OF INFORMATION MANAGEMENT, 2A	Details	<ul style="list-style-type: none"> <li>◆ General Course</li> <li>◆ Required</li> <li>◆ One Semester</li> </ul>
D e p a r t m e n t a l   A i m   o f   E d u c a t i o n			
<p>I . Refining information management skills.</p> <p>II . Enhancing information technology capabilities.</p> <p>III . Thinking independently with logic analysis.</p> <p>IV . Reinforcing team-working spirit.</p> <p>V . Valuing business and information ethics.</p> <p>VI . Cultivating global view.</p>			
Subject Departmental core competences			
<p>A. Problem analysis and critical thinking.(ratio:80.00)</p> <p>C. Applications of information systems.(ratio:10.00)</p> <p>G. Analysis, design and integration of information system.(ratio:10.00)</p>			
Subject Schoolwide essential virtues			
<p>2. Information literacy. (ratio:20.00)</p> <p>5. Independent thinking. (ratio:80.00)</p>			
Course Introduction	<p>This course provides an introduction to the operation concepts of modern operating systems. Specifically, the course will cover computer system structure, processes, threads and CPU scheduling. Depending on the actual progress of the course schedule, Microcodes and Queueing Theory may also be covered. The material covered will be considered a basis for the advanced course of Operating Systems Practices.</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 ways of functioning.	Cognitive
2	Understand the devolvement of Operating Systems and its current trend of development.	Cognitive
3	Apply the knowledge of Operating Systems to give suggestions or analysis for the work and problems facing.	Cognitive

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

No.	Core Competences	Essential Virtues	Teaching Methods	Assessment
1	C	2	Lecture, Discussion	Testing, Discussion(including classroom and online), Report(including oral and written)
2	A	25	Lecture, Discussion	Testing, Discussion(including classroom and online), Report(including oral and written)
3	A	2	Lecture, Discussion	Testing, Discussion(including classroom and online), Report(including oral and written)

**Course Schedule**

Week	Date	Course Contents	Note
1	108/09/09 ~ 108/09/15	Introduction	
2	108/09/16 ~ 108/09/22	Computer System Structure	
3	108/09/23 ~ 108/09/29	Computer System Structure	
4	108/09/30 ~ 108/10/06	Computer System Structure	

5	108/10/07 ~ 108/10/13	Processes	
6	108/10/14 ~ 108/10/20	Processes	
7	108/10/21 ~ 108/10/27	Processes	
8	108/10/28 ~ 108/11/03	Threads	
9	108/11/04 ~ 108/11/10	Threads	
10	108/11/11 ~ 108/11/17	Midterm Exam Week	
11	108/11/18 ~ 108/11/24	CPU Scheduling	
12	108/11/25 ~ 108/12/01	CPU Scheduling	
13	108/12/02 ~ 108/12/08	CPU Scheduling	
14	108/12/09 ~ 108/12/15	CPU Scheduling	
15	108/12/16 ~ 108/12/22	Process Synchronization	
16	108/12/23 ~ 108/12/29	Process Synchronization	
17	108/12/30 ~ 109/01/05	Process Synchronization	
18	109/01/06 ~ 109/01/12	Final Exam Week (Date:109/1/3-109/1/9)	
Requirement	No late turn-in for Homework or Quiz. All asking of leave should perform make-up after. (All percentages are adjustable)		
Teaching Facility	Computer, Projector		
Textbooks and Teaching Materials	Operating System Concepts, 10th edition, by Silberschatz, Galvin, and Gagne ( 新月 )		
References			
Number of Assignment(s)	5 (Filled in by assignment instructor only)		
Grading Policy	◆ Attendance : 5.0 %   ◆ Mark of Usual :   %   ◆ Midterm Exam : 25.0 % ◆ Final Exam : 30.0 % ◆ Other (Notes, HW, quiz, TA) : 40.0 %		

Note	<p>This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a> .</p> <p>※ <b>Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b></p>
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