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

Course Title	DISCRETE MATHEMATICS	Instructor	HUANG-WEN HUANG		
Course Class	TQICB2A DIVISION OF SOFTWARE ENGINEERING, DEPARTMENT OF INNOVATIVE INFORMATION	Details	<ul><li>◆ General Course</li><li>◆ Required</li><li>◆ One Semester</li></ul>		
	AND TECHNOLOGY (ENGLISH-TAUGHT				
	PROGRAM), <sup>2A</sup> Departmental Aim of Educ	ation			
Cultivate pro	ofessional talents in developing and applying information system	m in various fi	elds.		
	Subject Departmental core competence	es			
B. Capability of applying basic mathematics and information technology related mathematics(ratio:100.00)					
	Subject Schoolwide essential virtues				
2 Informa	tion literacy. (ratio:60.00)				
2. 1111011111	tion interacy. (ratio.oo.oo)				
5. Indeper	ndent thinking. (ratio:40.00)				
Course Introduction	This course will teach the students to be familiar with discrete is an important fundamental knowledgement in computer so engineering. It will further teach the students to understand functions in discrete mathematics.	ience and soft	ware		

## 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.

	manipulation.					
No.			objective methods			
	To introduce		Cognitive			
	To teach stuc mathematics discrete math	Cognitive				
	To introduce function, seq	Cognitive				
	To introduce their definitic	•	Cognitive			
5	To illustrate o	Cognitive				
	The correspondences of teaching objectives: core competences, essential virtues, teaching methods, and assessment					
No.	Core Compet	tences	Essential Virtues	Teaching Methods	Assessment	
1	В		25	Lecture, Practicum	Testing	
2	В		5	Lecture, Practicum	Testing	
3	В		5	Lecture, Practicum	Testing, Study Assignments	
4	В		5	Lecture, Practicum	Testing, Study Assignments, Practicum	
5	В		5	Lecture	Testing	
	ı	1		Course Schedule		
Week	Date	Course Contents Note			Note	
1	108/09/09 ~ 108/09/15	Introdu	uction Logic			
2	108/09/16 ~ 108/09/22	Formal Logic				
3	108/09/23 ~ 108/09/29	Propositional Logic				

4	108/09/30 ~ 108/10/06	Predicate Logic		
5	108/10/07 ~ 108/10/13	Logic in Mathematics		
6	108/10/14 ~ 108/10/20	Sets		
7	108/10/21 ~ 108/10/27	Functions, Sequences and Sums		
8	108/10/28 ~ 108/11/03	Numbers, Growth of Functions		
9	108/11/04 ~ 108/11/10			
10	108/11/11 ~ 108/11/17	Midterm Exam Week		
11	108/11/18 ~ 108/11/24	Induction		
12	108/11/25 ~ 108/12/01	Recursion 1		
13	108/12/02 ~ 108/12/08	Recursion 2		
14	108/12/09 ~ 108/12/15	Relations 1		
15	108/12/16~ 108/12/22	Relations 2		
16	108/12/23 ~ 108/12/29	Graphs 1		
17	108/12/30 ~ 109/01/05	Graphs 2		
18	109/01/06 ~ 109/01/12	Final Exam Week (Date:109/1/3-109/1/9)		
Re	equirement	If a student's class absence reaches one-third of the total class hours (in a semester) for a particular course, the course instructor will notify the Office of Academic Affairs, and the student will not be allowed to take part in the remaining course examinations and will receive a semester grade (for that course) of zero. 依本校學則第三十八條第二款規定辦理扣考		
Tea	aching Facility	Computer, Projector		
	ooks and ing Materials			
References				
Number of Assignment(s)		6 (Filled in by assignment instructor only)		
Grading Policy		◆ Attendance: 10.0 % ◆ Mark of Usual: 20.0 % ◆ Midtern ◆ Final Exam: 25.0 % ◆ Other〈小考4次、作業6次〉: 20.0 %	n Exam: 25.0 %	

Note	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> .
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