## Tamkang University Academic Year 109, 1st Semester Course Syllabus

Course Title	LINEAR ALGEBRA	Instructor	CHU, LIOU				
Course Class	DIVISION OF APPLIED INFORMATICS, DEPARTMENT OF INNOVATIVE INFORMATION  Details		<ul><li>General Course</li><li>Required</li><li>One Semester</li></ul>				
PROGRAM), <sup>1A</sup> Departmental Aim of Education							
Cultivate pro	ofessional talents in developing and applying information syster	m in various fie	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. Information literacy. (ratio:60.00)							
5. Indeper	ndent thinking. (ratio:40.00)						
Course Introduction	The course gives an introductory concept of Linear Algebra was application contents in order to establish foundations for adv						

## 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.

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No.			objective methods					
	1. Linear Syst Product Spac	Cognitive						
	The c	correspond	lences of teaching objective	s : core competences, essential virtues, teaching me	thods, and assessment			
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment			
1	В		25	Lecture, Discussion	Testing, Discussion(including classroom and online), Activity Participation			
				Course Schedule				
Week	Date		Соц	urse Contents	Note			
1	109/09/14 ~ 109/09/20	Ch 1. System of Linear Equations and Matrices						
2	109/09/21 ~ 109/09/27	Ch 2. Determinants						
3	109/09/28 ~ 109/10/04	Ch 3. V	Ch 3. Vectors in 2-Space and 3-Space					
4	109/10/05 ~ 109/10/11	Ch 3. V	Ch 3. Vectors in 2-Space and 3-Space					
5	109/10/12 ~ 109/10/18	Ch 3. V	Ch 3. Vectors in 2-Space and 3-Space					
6	109/10/19 ~ 109/10/25	Ch 4. E	Ch 4. Euclidean Vector Spaces					
7	109/10/26 ~ 109/11/01	Ch 4. Euclidean Vector Spaces						
8	109/11/02 ~ 109/11/08	Ch 4. Euclidean Vector Spaces						
9	109/11/09 ~ 109/11/15	Ch 4. Euclidean Vector Spaces						
10	109/11/16 ~ 109/11/22	Midterm Exam Week						
11	109/11/23 ~ 109/11/29	Ch 5. General Vector Spaces						
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12	109/11/30 ~ 109/12/06	Ch 5. General Vector Spaces				
13	109/12/07 ~ 109/12/13	Ch 5. General Vector Spaces				
14	109/12/14 ~ 109/12/20	Ch 6. Inner Product Spaces				
15	109/12/21 ~ 109/12/27	Ch 6. Inner Product Spaces				
16	109/12/28 ~ 110/01/03	Ch 6. Inner Product Spaces				
17	110/01/04 ~ 110/01/10	Ch 7. Eigenvalues, Eigenvectors				
18	110/01/11 ~ 110/01/17	Final Exam Week				
Requirement		1. Attendance of all classes is required. 請務必出席所有課程。 2. Any absence will result in at least 5 points of "Participation and performance" deducted. Please call me or text me before class. 病假事假扣「課堂表現」5分・請上課前通知老師。 3. Absence without leave will result in 30 points of "Participation and performance" deducted. 曠課每次扣「課堂表現」30分。 4. Cheating or plagiarism will result in failure in the course. 作弊、抄襲會導致本課程不及格。 5. Talking, eating, using mobile phone and wearing slippers during class are not allowed, and will be expelled from the class. 上課請勿: 交談、飲食、使用行動電話・或穿著拖鞋。 以上行為因影響教師課程進行・將被要求離開教 室。 6. Late arrival, early departure (over 20 minutes), and the stated inappropriate behavior will result in 30 points of "Participation and performance" deducted. 遲到、早退 (超過20分鐘)・及前述不當行為每次 扣「課堂表現」30分。 7. There will be at least 6 home assignments and 4 quizzes.				
Teaching Facility  Textbooks and Teaching Materials		Computer, Projector  Elementary Linear Algebra, Anton and Rorres, John Wiley and Sons, 11th or the latest edition.				
R	eferences					
Number of Assignment(s)		6 (Filled in by assignment instructor only)				
Grading Policy		<ul> <li>◆ Attendance:  %</li></ul>				

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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