## Tamkang University Academic Year 111, 1st Semester Course Syllabus

Course Title	LINEAR ALGEBRA	Instructor	WANG WEN-YEN
Course Class	TLSXB2A DEPARTMENT OF STATISTICS, 2A	Details	<ul><li>General Course</li><li>Required</li><li>1st Semester</li></ul>
Relevance to SDGs	SDG4 Quality education		

## Departmental Aim of Education

- ${\tt I. \ Cultivate \ students \ with \ knowledge \ of \ basic \ statistical \ theory.}$
- $\ensuremath{\mathbb{I}}$ . Cultivate students with data analysis skills.
- III. Cultivate students to become statistical professionals with management capabilities.

## Subject Departmental core competences

- A. Knowledge of basic statistical theory.(ratio:5.00)
- B. Logical reasoning in mathematics.(ratio:80.00)
- C. Data analysis skills.(ratio:5.00)
- D. Application of profession knowledge.(ratio:10.00)

## Subject Schoolwide essential virtues

- 1. A global perspective. (ratio:10.00)
- 2. Information literacy. (ratio:20.00)
- 3. A vision for the future. (ratio:10.00)
- 4. Moral integrity. (ratio:10.00)
- 5. Independent thinking. (ratio:30.00)
- 6. A cheerful attitude and healthy lifestyle. (ratio:10.00)
- 7. A spirit of teamwork and dedication. (ratio:5.00)
- 8. A sense of aesthetic appreciation. (ratio:5.00)

	Course roduction	matrix		o help students grasp concepts of the vec owledge of matrix theory to work in statis riate statistics.				
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.								
<ul> <li>I. Cognitive: Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.</li> <li>II.Affective: Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.</li> <li>III.Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.</li> </ul>								
No.			objective methods					
1	To grasp cor	ncepts of	the vector and matrix.		Affective			
	The	correspond	ences of teaching objectives	: core competences, essential virtues, teaching me	thods, and assessment			
No.	Core Competences		Essential Virtues	Teaching Methods	Assessment			
1	ABCD		12345678	Lecture	Testing, Study Assignments			
				Course Schedule	-			
Week	Date		Cour	rse Contents	Note			
1	111/09/05 ~ 111/09/11	Chapte	r 1 Systems of linear equ					
2	111/09/12 ~ 111/09/18	Chapte	r 1 Systems of linear equ					
3	111/09/19 ~ 111/09/25	Chapter 1 Systems of linear equations and matrices						
4	111/09/26 ~ 111/10/02	Chapter 1 Systems of linear equations and matrices						
5	111/10/03 ~ 111/10/09	Chapter 1 Systems of linear equations and matrices						
6	111/10/10 ~ 111/10/16	Chapter 1 Systems of linear equations and matrices						

7	111/10/17 ~ 111/10/23	Chapter 1 Systems of linear equations and matrices		
8	111/10/24 ~ 111/10/30	Chapter 1 Systems of linear equations and matrices		
9	111/10/31 ~ 111/11/06	Chapter 1 Systems of linear equations and matrices		
10	111/11/07 ~ 111/11/13	Midterm Exam Week		
11	111/11/14 ~ 111/11/20	Chapter 2 Linear combinations and Linear independence		
12	111/11/21 ~ 111/11/27	Chapter 2 Linear combinations and Linear independence		
13	111/11/28 ~ 111/12/04	Chapter 2 Linear combinations and Linear independence		
14	111/12/05 ~ 111/12/11	Chapter 3 vector space		
15	111/12/12 ~ 111/12/18	Chapter 3 vector space		
16	111/12/19 ~ 111/12/25	Chapter 3 vector space		
17	111/12/26 ~ 112/01/01	Chapter 3 vector space		
18	112/01/02 ~ 112/01/08	Final Exam Week		
Re	equirement	請勿任意缺課		
Tea	aching Facility	(None)		
Textbooks and Teaching Materials		Linear Algebra Jim DeFranza & Daniel Gagliardi		
F	References			
Number of Assignment(s)		(Filled in by assignment instructor only)		
Grading Policy		◆ Attendance: 10.0 % ◆ Mark of Usual: % ◆ Midterm Exam: 30.0 % ◆ Final Exam: 40.0 % ◆ Other〈實習課〉: 20.0 %		
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> .  ** Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.		

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